METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS

1ST JANUARY TO 30TH JUNE, 1899.

DAILY WEATHER REPORT.

January to June 1899.

DAILY WEATHER REPORT

for 8 a.m. on Wednesday 1st February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.51	13	N	4	b	29.80	+.59	-11	-13	-29	NNW	2	b	#	b	#	18	?	—
	Hernösand ...	29.49	18	N	2	o	29.69	+.39	12	11	-21	N	6	o	#	o	#	34	12	0.08
	Stockholm ...	29.34	29	E	0	o	29.34	-.13	23	22	0	NE	8	s	#	o	#	30	19	—
	Wisby	29.42	34	W	4	o	29.28	-.27	34	33	+1	SSW	4	s	#	o	#	34	28	—
	Karlstad ...	29.28	32	WNW	2	s	29.34	-.22	22	21	+11	ESE	4	s	#	s	#	#	#	0.20
	Bodö	29.61	29	ENE	4	b	29.75	+.46	12	8	-18	ENE	4	b	1	b	#	30	10	—
	Christiansund ...	29.38	34	ENE	6	s	29.58	+.22	25	24	-11	ENE	4	b	5	s	#	36	25	0.39
	Skudesnaes ...	29.27	39	NW	4	c	29.28	-.35	32	31	-5	N	2	b	2	r,c	#	40	32	#
	Færder (Christiania Fjord)	29.23	36	WSW	4	o	29.31	-.25	26	24	-6	NNE	8	o	3	o	#	36	26	—
	Skagen (The Scaw)	29.30	39	W	1	r	29.22	-.36	35	33	0	NNW	2	o	0	r	#	39	30	0.08
	Fanö	29.46	38	WNW	2	o	29.28	-.41	37	37	0	W	2	r	#	o	#	39	37	0.04
BRITISH ISLANDS.	Sumburgh Head	29.50	35	N	4	o	29.54	+.02	33	33	-9	N	3	o	5	o	#	42	33	0.05
	Stornoway ...	29.63	37	NE	2	o	29.62	-.11	34	33	-3	NNE	2	os	2	o	0.0	42	32	0.03
	Wick	29.57	36	WNW	3	o	29.57	-.11	38	37	0	N	3	csp	3	o	#	39	32	0.05
	Nairn	29.60	39	W	1	o	29.57	-.19	35	34	+1	NNW	2	c	2	o	#	39	32	0.01
	Aberdeen ...	29.55	38	NW	4	ogpq	29.53	-.22	34	32	-1	NW	5	cq	4	s gpq, sp	0.0	39	32	0.02
	Leith	29.59	37	WNW	1	o	29.52	-.26	36	33	-1	NNW	2	cm	#	o	#	38	35	—
	Shields	29.60	36	WSW	2	om	29.46	-.35	35	34	-2	NW	3	c	3	om, sp	#	41	33	—
	Spurn Head ...	29.59	41	WNW	3	o	29.42	-.44	37	37	-3	NW	4	c	4	o	#	42	36	—
	York	29.61	40	N	1	o	29.47	-.33	35	34	-2	NNW	1	b	#	o	0.0	40	34	—
	Loughborough ...	29.64	38	NE	1	o	29.49	-.30	34	33	-2	WNW	1	ogm	#	om	#	40	32	—
	Ardrossan ...	29.63	39	WNW	1	o	29.54	-.26	34	33	-3	NNE	2	bmw	1	c, o	#	41	33	—
	Malin Head ...	29.65	40	WNW	3	bc	29.52	-.28	39	37	+1	E	5	c	3	o, bc	#	41	37	0.06
	Belmullet ...	29.73	41	ENE	1	o	29.58	-.26	39	38	0	E	1	o	#	o	#	46	35	0.03
	Donaghadee ...	29.65	38	WNW	4	c	29.51	-.30	39	38	-2	E	4	r	2	c	#	41	35	0.05
	Liverpool (Bidston)	29.65	37	WNW	1	o	29.50	-.31	35	34	-2	E	1	r	?	o	#	40	35	0.02
	Holyhead ...	29.66	40	E	0	ogm	29.48	-.32	42	40	+2	N	2	o	1	o	#	42	38	—
	Parsonstown ...	29.69	37	NE	1	o	29.52	-.29	31	31	-5	E	0	of	#	o	0.0	39	30	—
	Valencia ...	29.64	42	E	1	om	29.58	-.26	40	35	-2	E	3	o	5	om	0.0	43	39	—
	Roche's Point ..	29.64	41	ESE	3	c	29.49	-.27	39	38	-1	ESE	3	o	4	c	#	43	38	—
	Pembroke (St. Ann's Hd.)	29.64	41	NE	3	o	29.51	-.28	37	35	-1	E	2	og	3	o	0.8	41	35	—
	Scilly	29.53	41	E	5	om	29.42	-.24	43	41	+1	ESE	5	o	6	om	0.6	43	39	—
	Prawle Point ...	29.59	38s	NE	3	cm	29.48	-.21	36	35	-2	NNE	2	og	2	c	#	39	35	—
	Jersey (St. Aubin's)	29.58	40	ENE	3	om	29.49	-.17	36	35	-3	ESE	3	cm	3	og	#	40	36	—
	Hurst Castle ...	29.57	38	NNE	1	om	29.50	-.23	36	34	+2	NNW	1	ogm	1	cm, om	#	41	32	—
	Dungeness ...	29.59	37	ENE	2	b	29.48	-.24	32	32	-5	NW	2	m	1	bo, b	#	41	29	—
	North Foreland																#			
	London (Brixton) ...	29.62	39	NE	2	om	29.50	-.26	35	34	+1	NE	1	ogm	#	ogm	0.0	40	34	—
	Oxford	29.61	37	NNE	1	o	29.50	-.27	35	33	0	NE	2	og	#	tsp, og	#	39	35	0.02
	Cambridge ...	29.63	38	NNW	1	o	29.47	-.31	35	33	+2	W	1	om	#	o	0.0	41	31	0.09
	Yarmouth ...	29.60	41	NNW	2	c	29.43	-.31	35	34	-4	W	3	cf	3	bcv, c	#	41	33	—
GERMANY & HOLLAND.	Cuxhaven ...	29.56	36	SW	1	o	29.37	-.29	34	34	+1	SSW	2	o	#	o, sp	#	36	32	0.04
	Berlin	29.63	27	S	1	f	29.44	-.36	28	27	+4	E	0	f	#	f	#	28	24	—
	Wiesbaden ...	*	*	*	*	*	29.46	-.29	32	31	0	SE	2	c	#	*	*	36	32	—
	Munich	29.46	24	E	4	o	29.44	-.27	25	25	+2	SW	3	s	#	o	#	28	23	0.08
	The Helder ...	29.57	38	S	1	r	29.39	-.36	39	37	+10	WSW	1	o	1	o, r	#	39	28	0.04
BELGIUM.	Brussels ...	*	*	*	*	*	29.50	-.25	26	26	-4	SW	1	f	#	f	#	34	22	—
	Cape Gris Nez ...	?	35	E	1	m	?	?	39	37	+9	NW	1	m	1	m	#	39	30	—
	Paris	29.59	31	NE	2	o	29.54	-.15	31	30	+1	NNE	1	o	#	o	#	33	30	—
	Brest	29.59	39	ENE	2	b	29.47	-.17	32	31	-4	E	1	c	2	b	#	43	30	—
	Lorient	29.52	40	ENE	4	bc	?	?	31	30	-3	E	4	o	3	bc	#	43	30	—
FRANCE &	Rochefort ...	29.49	37	NE	4	o	29.45	-.16	34	32	-2	E	4	bc	#	o	#	39	30	—
	Belfort	29.52	27	NE	3	s	29.49	-.18	30	30	+3	WSW	3	? r	#	s	#	30	26	0.04
	Lyons	29.57	31	SE	1	f	29.59	-.09	29	29	+1	NNW	1	f	#	s, f	#	31	27	0.12
	Nice	29.46	45	E	2	c	29.36	-.26	44	44	+2	E	1	bc	1	c	#	52	42	—
	Perpignan ...	29.47	46	NE	1	o	29.45	-.13	44	43	+3	W	1	o	#	o	#	53	41	—
	Biarritz ...	29.38	47	E	4	c	29.38	-.12	45	43	+5	SSE	2	o	2	c	#	52	40	?
PENINSULA.	Corunna ...																#			
	Lisbon	29.48	53	S	4	o	29.38	+.01	49	48	-2	ESE	2	o	#	o	#	57	48	0.43
	Azores (P. Delgada)	29.69	55	WNW	5	bc	29.72	+.17	53	49	-1	N	3	c	3	c	#	59	52	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

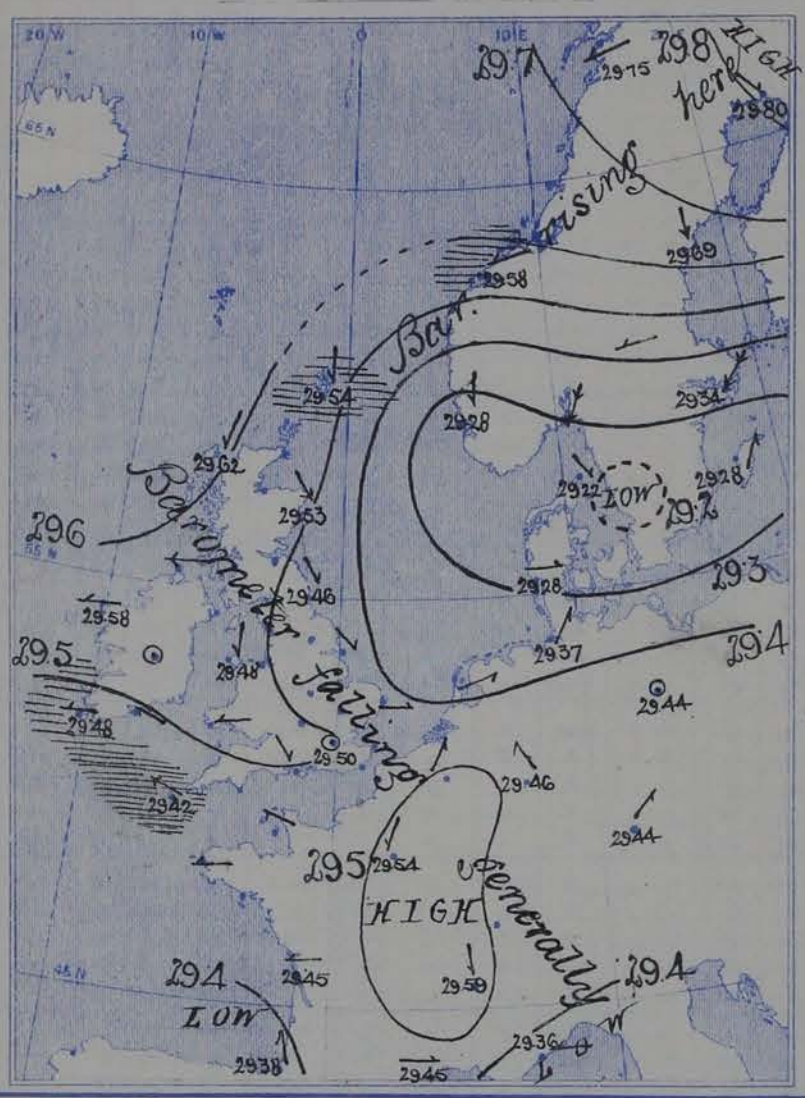
Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR Wednesday, 1st February, 1899.

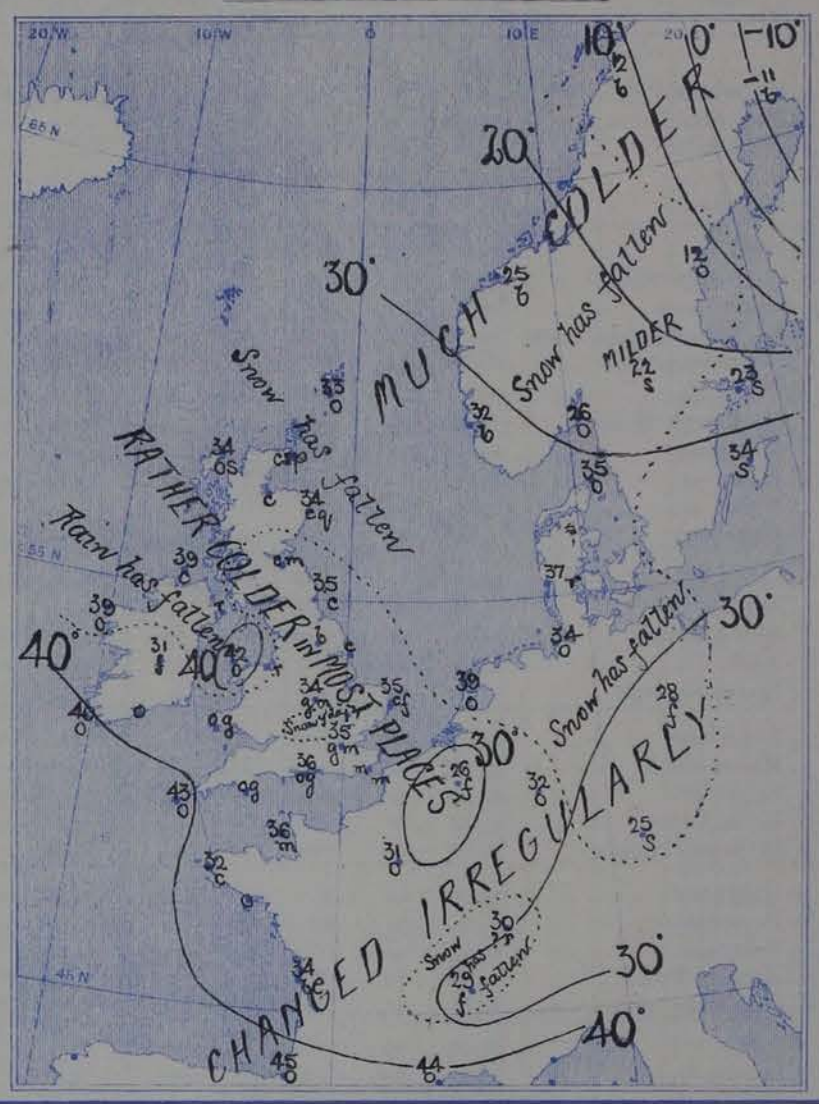
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1.65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 29.7 ins. and more in the N. of Scandinavia, 29.6 ins. and more at Stornoway and exceeding 29.5 ins. over nearly the whole of our W^rn. and NW^rn. districts; (2) 29.5 ins. and more over central France.
Lowest 29.2 ins. and less in a complex depression lying over the E^rn. shores of the North Sea, and having its minimum over the south of Sweden.
Gradients slight. Barometer fallen except in the extreme N. where a rise was in progress.

TEMPERATURE

Highest 45° at Biarritz, 44° at Nice, 43° at Sailly, 42° at Holyhead, 40° at Valencia (Ireland).
Lowest (1) −11° F. at Haparanda, +12° at Hernösand and Bodö; (2) 25° at Munich, 28° at Berlin, 31° at Paris.
Some of the maxima recorded in our Islands yesterday exceeded 40°, but there were several, even at the English stations, which were as low as 39°, at Leith the maximum was only 38°.

WIND

Very variable in direction. It was mainly E^ly. on our western coasts and over the Bay of Biscay; NW^ly. on our east coasts, SW^ly. in Holland.

WEATHER

Fair generally at our E^rn. stations, dull and gloomy in the W. and S., and slight snow is falling in the N. of Scotland.
A few showers have fallen in Ireland, Scotland, and at some of the Continental stations.
Bright Sunshine recorded yesterday was extremely slight except on our S^rn. coasts. In most places there was none.

SEA

Slight as a whole, but a heavy ground swell is reported on our SW. coasts.

PROBABLE CHANGES, IN SYSTEM NOW PREVALENT

There is evidently unsettled weather over the Atlantic but no depression of importance is shown in our neighbourhood at present.

FORECASTS

For the 24 hours ending at NOON on 2nd. FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	N^ly. and varying winds; fair as a whole.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	NW^ly. and N^ly. breezes; light; fair today, perhaps rainy tomorrow.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	E^ly. and S^ly. winds, increasing in force; cloudy, rainy.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	None issued at present.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.43	40	39	W	6	r	3
Sumburgh Head	29.40	37	36	N	4	o	4
Stornoway	29.65	42	41	NNW	2	o	2
Aberdeen	29.59	38	35	WSW	3	og	1
Shields	29.66	40	38	WSW	3	o	3
Ardrossan	29.67	41	39	WNW	2	c	1
Malin Head ...	29.70	40	40	WSW	2	o	1
Belmullet	29.77	46	42	SSE	1	o	*
Holyhead	29.71	41	39	Z	0	ogm	0

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.66	43	39	E	1	om	2
Scilly	29.57	42	40	ENE	5	om	3
Jersey	29.60	40	38	ENE	3	o	3
Hurst Castle ...	29.64	40	37	ENE	2	cm	2
Dungeness ...	29.63	40	38	ENE	3	bc	2
North Foreland							
London (Westminster)	29.65	41	38	ENE	3	omg	*
Yarmouth ...	29.64	41	39	E	2	bcw	3
Rochefort ...	29.53	37	36	NE	4	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning dull and gloomy over our Islands; foggy in the E. of France and NW. of Germany, rather unsettled over N^rn. Europe, but temporarily fair at many of the Baltic stations; a few showers falling later over Germany, Scandinavia, Scotland and Ireland, and slight snow in a few places.

Temperature in morning highest 65° at La Calle, 59° at Malta; 42° at Scilly and Valencia, 40° at Holyhead. Lowest (1) 15° at Ulleaborg, 24° at Kuopio, 28° at Helsingfors; (2) 19° at Kiev and Moscow, 20° at Kharkov, 23° at Munich, 24° at Cracow and Berlin, 27° at Belfort, 30° at Paris; (3) 33° at Cambridge, 34° at Nairn. Rising later to 46° at Belmullet, and 43° in the S. of Ireland, but scarcely exceeding 40° at any of the English stations.

Wind light to moderate in force; mainly W^ly. over the northern half of Europe, and E^ly. in the south, but very variable at the more central stations. No important change later.

Barometer highest (1) 29.9 ins. and more to 29.8 ins. over central and SE^rn. Europe; (2) 29.8 ins. and more in an anticyclone covering the N. parts of Ireland and England. Lowest (1) 29.1 ins. and less in a depression over Finland; (2) 29.4 ins. and less in a depression lying over and near Spain and Portugal; falling over the United Kingdom and France all day, but beginning to rise in the N. of Scandinavia

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Thursday 2nd February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.78	-23	L	0	b	29.57	-.23	-22	-23	-11	SSE	2	bc	#	b	#	12	-27	—
	Hernösand ...	29.73	5	NNE	6	0	29.61	-.08	-11	-11	-23	L	0	b	#	0	#	18	-11	—
	Stockholm ...	29.44	17	NE	4	s	29.42	+.08	15	15	-8	NNE	4	s	#	s	#	25	15	0.12
	Wisby ...* ...	29.34	31	WNW	4	0	29.33	+.05	23	23	-11	ENE	6	s	#	0	#	34	23	0.43
	Karlstad ...	29.51	13	NE	2	bc	29.52	+.18	10	9	-12	NE	2	0	#	bc	#	#	#	0.08
	Bodö	29.59	14	ENE	4	b	29.31	-.44	17	15	+5	ESE	6	s	2	b	#	17	9	—
	Christiansund ...	29.59	23	NE	1	b	29.48	-.10	25	24	0	ESE	3	0	4	b	#	27	23	—
	Skudesnaes ...	29.50	29	ENE	4	b	29.51	+.23	26	24	-6	ENE	2	b	2	b	#	34	26	#
	Færder (Christiania Fjord)	29.51	19	NNE	7	b	29.54	+.23	15	13	-11	NNE	6	b	3	b	#	27	14	—
	Skagen (The Scaw)	29.37	23	ENE	7	s	29.45	+.23	20	19	-15	ENE	6	m	2	s	#	36	19	—
	Fanö	29.32	31	N	4	0	29.36	+.08	31	30	-6	N	4	c	#	0	#	39	23	0.08
	Sumburgh Head	29.57	35	N	3	0	29.57	+.03	33	32	0	N	2	0	4	bc,0	#	37	31	0.01
	Stornoway ...	29.64	36	NE	3	b	29.69	+.07	34	33	0	NNE	3	b	3	tsp,c,b	4.4	40	30	0.05
	Wick	29.53	38	SE	3	0	29.63	+.06	35	33	-3	N	4	c	1	0	#	40	30	0.01
	Nairn	29.60	37	NNE	3	b	29.65	+.08	30	29	-5	L	0	0	1	b	#	41	27	—
	Aberdeen ...	29.54	35	N	6	bcq	29.62	+.09	30	29	-4	NW	3	bc	5	bcsp,bcq	3.8	39	28	0.02
BRITISH ISLANDS.	Leith	29.55	36	NNW	2	bc	29.62	+.10	34	32	-2	NNW	3	bm	#	bc	#	42	34	—
	Shields	29.48	36	NW	3	tshp	29.53	+.07	38	35	+3	NNE	3	c	4	c,tshp	#	40	32	0.12
	Spurn Head ...	29.40	38	NW	4	bc	29.48	+.06	38	34	+1	NE	4	bc	5	bc,p,s	#	40	33	0.08
	York	29.45	35	N	1	b	29.54	+.07	33	32	-2	NNW	1	c	#	b,c,sp	4.5	39	30	0.03
	Loughborough ...	29.47	33	WNW	1	b	29.51	+.02	33	33	-1	NNE	2	bcm	#	cmb,o,c	#	40	27	—
	Ardrossan ...	29.55	37	NNE	2	bm	29.65	+.11	34	33	0	NNE	2	bm	1	bm	#	41	32	—
	Malin Head ...	29.58	39	E	4	b	29.65	+.13	38	35	-1	E	4	bc	2	b	#	40	36	—
	Belmullet ...	29.58	37	E	3	b	29.69	+.11	33	32	-6	E	1	b	#	b	#	43	30	0.01
	Donaghadee ...	29.53	41	ENE	6	b	29.63	+.12	39	36	0	NE	6	b	4	b	#	42	36	—
	Liverpool (Bidston)	29.49	36	N	1	c	29.57	+.07	32	30	-3	N	1	b	1	fs,c	#	38	30	0.09
	Holyhead ...	29.50	39	NE	3	b	29.58	+.10	39	36	-3	NE	2	c	2	cp,b	#	42	35	—
	Parsonstown ...	29.49	36	NE	2	0	29.63	+.11	30	28	-1	L	0	b	#	0	0.0	37	28	—
	Valencia ...	29.41	40	E	3	c	29.52	+.04	39	35	-1	E	6	bq	5	0,c	0.0	42	37	—
	Roche's Point ..	29.45	40	E	3	0	29.55	+.06	36	34	-3	E	4	bc	4	0	#	41	35	—
	Pembroke (St. Ann's Hd.)	29.44	39	E	2	c	29.56	+.05	33	31	-4	E	3	bc	2	c	0.0	40	33	—
	Scilly	29.36	42	ENE	4	om	29.40	-.02	41	39	-2	ENE	5	om	5	om	0.0	45	39	—
	Prawle Point ...	29.42	39	NE	3	og	29.46	-.02	34	32	-2	NNE	4	og	3	og	#	40	32	—
	Jersey (St. Aubin's)	29.42	34	SE	3	bc	29.40	-.09	34	34	-2	E	3	cm	3	c,bcm	#	38	31	—
	Hurst Castle ...	29.44	38	ESE	1	bcm	29.42	-.08	31	30	-5	NNE	2	c	2	ogm,bcm	#	40	30	—
	Dungeness ...	29.43	37	W	2	c	29.44	-.04	30	30	-2	NNW	2	c	1	0,c	#	41	28	—
	North Foreland																#			
	London (Brixton) ...	29.44	38	NW	1	0	29.48	-.02	32	30	-3	NE	1	cg	#	og,bw	0.0	40	30	—
	Oxford	29.46	35	NNW	2	bc	29.50	.00	30	29	-5	N	1	ors	#	0,bcm	#	39	28	—
	Cambridge ...	29.44	33	N	1	b	29.49	+.02	31	30	-4	L	0	0	#	0,b	0.0	41	26	—
	Yarmouth ...	29.37	40	W	2	bc	29.44	+.01	37	35	+2	NNE	5	csq	5	c,p,bc	#	40	30	0.04
GERMANY & HOLLAND.	Cuxhaven ...	29.29	36	SW	3	0	29.32	-.05	32	30	-2	N	3	0	#	0,dsp	#	36	30	—
	Berlin	29.38	30	WNW	2	0	29.33	-.11	29	28	+1	SW	2	s	#	0	#	32	28	0.04
	Wiesbaden ...	#	#	#	#	#	29.43	-.03	23	23	-9	SW	2	bc	#	#	#	36	23	—
	Munich... ..	29.46	25	SW	2	b	29.39	-.05	12	11	-13	SE	3	bc	#	b	#	34	10	0.08
	The Helder ...	29.32	36	WSW	1	r	29.39	.00	36	33	-3	NE	3	c	2	r	#	43	34	0.16
FRANCE & BELGIUM.	Brussels ...	#	#	#	#	#	29.43	-.07	27	27	+1	SW	1	f	#	0	#	31	25	—
	Cape Gris Nez...	?	41	NW	1	m	?	?	42	36	+3	NE	2	0	2	m	#	42	34	—
	Paris	29.49	31	SE	2	0	29.41	-.13	27	26	-4	NE	2	c	#	0	#	35	26	—
	Brest	?	33	E	1	0	29.36	-.11	32	32	0	E	1	b	5	0	#	37	28	—
	Lorient... ...	29.37	31	E	4	0	29.34	?	32	32	+1	ENE	4	0	5	0	#	34	30	—
	Rochefort ...	29.36	40	E	3	0	29.30	-.15	37	37	+3	E	3	0	#	0	#	41	34	0.04
	Belfort	29.49	27	L	0	bc	29.38	-.11	25	24	-5	ENE	2	m	#	bc	#	32	22	—
	Lyons	29.51	30	E	1	0	29.39	-.20	28	28	-1	NE	1	f	#	0	#	32	27	—
	Nice	29.38	48	E	1	c	29.29	-.07	44	43	0	E	3	f	5	c	#	55	43	0.55
	Perpignan ...	29.39	47	E	2	0	29.28	-.17	43	42	-1	W	2	0	#	0	#	50	42	—
	Biarritz ...	29.26	52	SSE	2	c	29.24	-.14	49	45	+4	S	2	0	5	c	#	57	45	—
PENINSULA.	Corunna ...																#			
	Lisbon	29.44	51	WSW	6	0	29.57	+.19	48	46	-1	WSW	3	r	#	0	#	55	46	0.47
	Azores (P. Delgada)																#			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

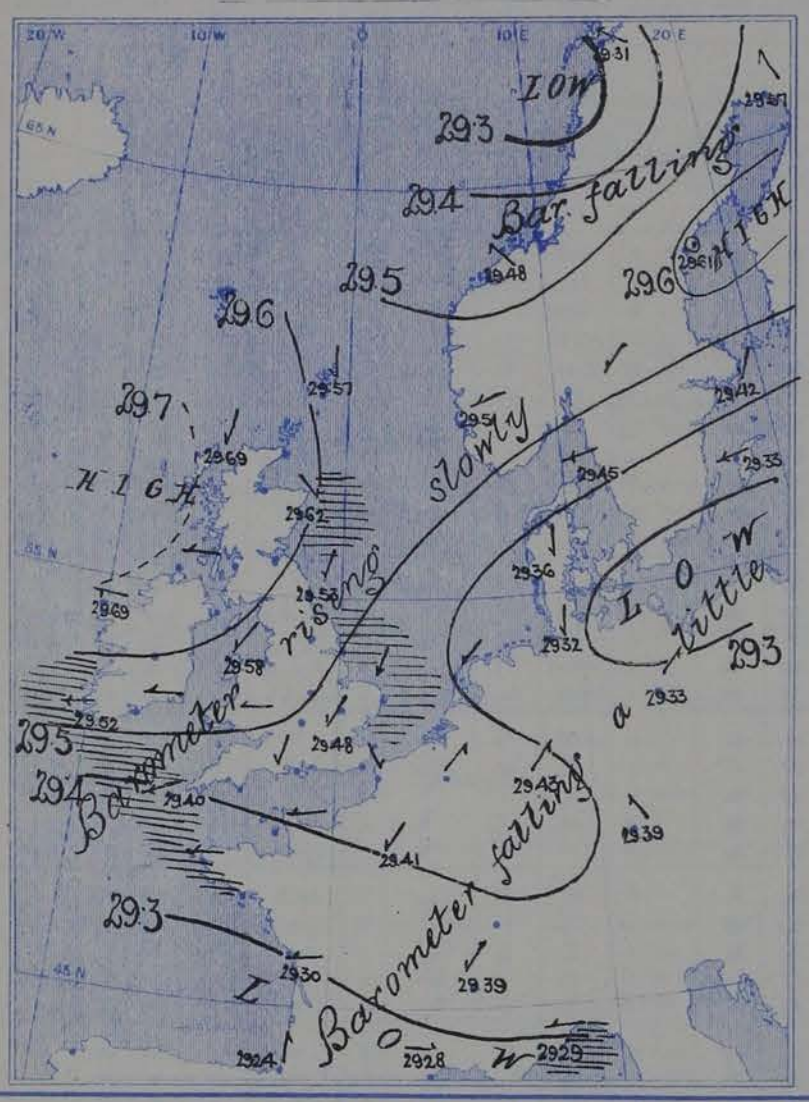
Bright Sunshine yesterday, Southport 4·1 hrs;

WEATHER CHARTS

FOR Thursday, 2nd February, 1899.

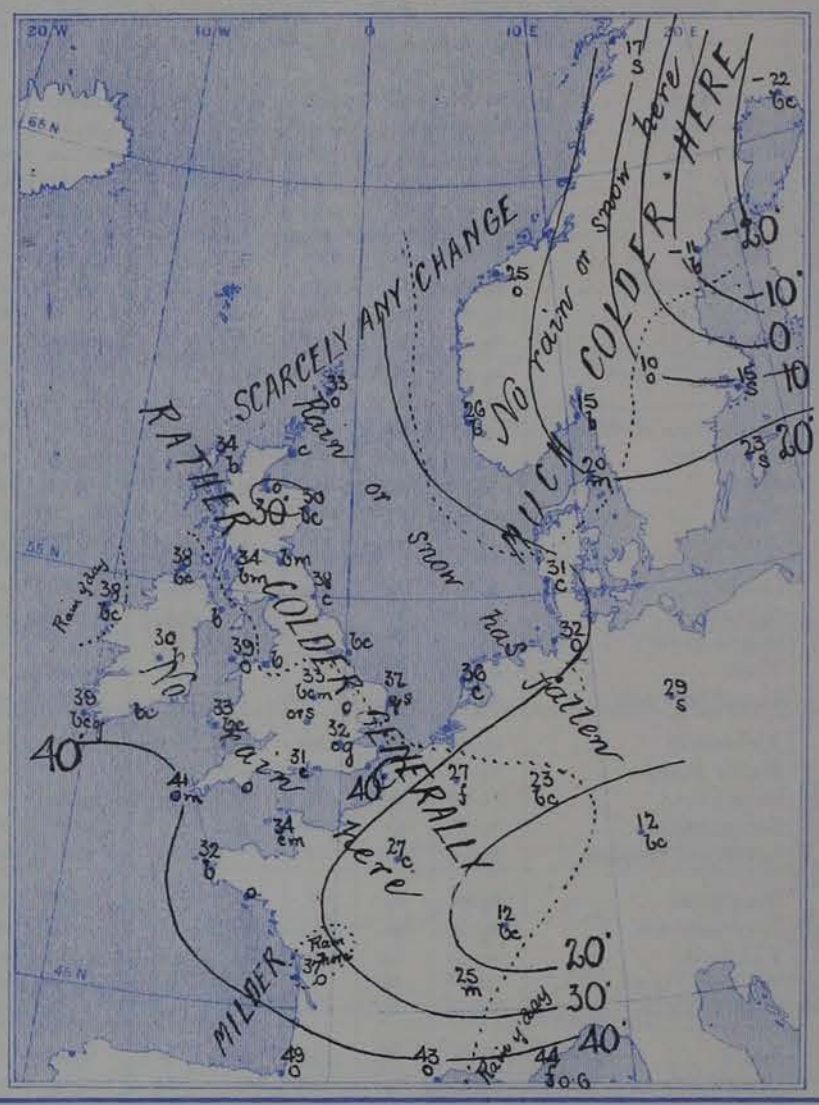
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 · 4	32 · 5	64	1891	0	1895	1 · 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.7 ins. and more to 29.5 ins. over the W^rn. and N^rn. parts of our Islands.
Lowest 29.3 ins. and less (1) in a depression off the NW. of Norway, and (2) in another over Spain and the SW. of France.
Gradients slight, but increasing over Scandinavia.
Barometer rising throughout our Islands, falling in the N. of Norway and Sweden.

TEMPERATURE

Highest 49° at Biarritz, 44° at Nice; 41° at Scilly, 39° at Valencia and Holyhead.
Lowest – 22° F. at Haparanda, – 11° at Hernösand; + 10° at Karlstad, 23° at Wiesbaden, 27° at Paris, 30° to 33° over England.
The maxima recorded yesterday exceeded 40° at many of our stations, but were as low as 38° at Liverpool, and 39° at Oxford.

WIND

(1) N^ly to NW^ly at the Scotch stations, but ESE^ly in the west of Norway.
(2) NE^ly to E^ly over Ireland and England, and blowing strongly at some western stations.
(3) NE^ly to E^ly over France and the Bay of Biscay.

WEATHER

Fine generally, but dull in places. Slight cold showers are reported in Sweden and Germany, and at some of our own stations – most in the north and northwest.
Bright Sunshine amounted during yesterday to between 4 and 5 hours over the northern parts of the Kingdom, but there was none in the south and west.

SEA

Rather rough both at our E^rn. and W^rn. stations, smooth off our S. coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Cold quiet weather is probable with a few cold showers in some localities.

FORECASTS

For the 24 hours ending at NOON on 3RD FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	N^ly winds, light, fine, cold.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NE^ly winds, light or moderate; fair, cold increasing.
6 SCOTLAND WEST	Same as No. 0 to 2.
7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	NE^ly to E^ly winds, moderate to fresh, fair, cold.
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.39	33	28	ENE	6	c	2	Valencia	29.44	42	37	ESE	2	o	5
Sumburgh Head	29.36	37	33	NE	4	bc	5	Scilly	29.38	44	40	ENE	4	om	6
Stornoway	29.63	39	38	ENE	3	c	3	Jersey	29.45	36	35	SE	3	c	3
Aberdeen	29.53	35	33	NNE	6	besp	5	Hurst Castle ...	29.46	40	36	NNE	1	ogm	1
Shields	29.47	38	37	NW	2	c	3	Dungeness ...	29.43	40	38	NNW	2	o	1
Ardrossan	29.54	40	38	NNE	2	b	1	North Foreland							
Malin Head ...	29.55	40	37	SE	4	b	2	London (Westminster)	29.44	41	37	NW	2	cg	
Belmullet	29.54	43	40	E	4	o	*	Yarmouth ...	29.37	40	38	NW	2	c	3*
Holyhead	29.49	39	38	ENE	3	cp	2	Rochefort ...	29.41	39	37	ESE	4	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental information not yet received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky ; c. detached clouds ; d. drizzling rain ; f. fog ; g. dark, gloomy ; h. hail ; l. lightning ; m. misty (hazy) : o. overcast ; p. passing showers ; q. squally ; r. rain ; s. snow ; t. thunder ; u. ugly, threatening ; v. visibility, unusual transparency ; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Friday 3rd February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.28	-10	L	0	0	29.18	-.39	-18	-19	+ 4	L	0	c	*	0	*	-13	-35	—
	Hernösand ...	29.34	-4	L	0	b	29.15	-.46	5	4	- 16	L	0	0	*	b	*	5	-11	—
	Stockholm ...	29.45	8	L	0	0	29.33	-.09	3	3	- 12	WNW	2	b	*	0	*	18	3	—
	Wisby	29.39	23	NNE	6	0	29.46	+.13	19	18	- 4	WNW	6	c	*	0	*	23	19	0.04
	Karlstad ...	29.54	-2	W	2	b	29.43	-.09	3	3	- 7	L	0	bc	*	b	*	*	*	—
	Bodö	29.27	5	E	1	b	29.14	-.17	23	21	+ 6	N	7	bc	2	bc	*	23	16	—
	Christiansund ...	29.47	34	WSW	2	0	29.40	-.08	31	30	+ 6	N	8	s	6	0	*	34	25	0.04
	Skudesnaes ...	29.62	26	L	0	b	29.62	+.11	30	28	+ 4	L	0	0	1	b	*	31	25	*
	Færder (Christiania Fjord)	29.55	14	NW	1	b	29.46	-.08	21	20	+ 6	W	1	b	1	b	*	21	12	—
	Skagen (The Scaw)	29.56	19	NE	2	r	29.54	+.09	21	20	+ 1	SW	1	?	0	?	*	21	18	—
	Fanö	29.59	24	NNE	4	0	29.68	+.32	22	21	- 9	SW	1	b	*	0	*	31	19	—
BRITISH ISLANDS.	Sumburgh Head	29.63	34	N	2	0	29.72	+.15	34	33	+ 1	N	2	0	4	0	*	36	31	—
	Stornoway ...	29.74	33	L	0	bc	29.83	+.14	36	35	+ 2	WNW	1	0	1	c, bc	2.2	38	30	0.03
	Wick	29.73	35	N	3	c	29.82	+.19	33	33	- 2	NW	2	c	2	c	*	37	32	0.02
	Nairn	29.73	34	WNW	2	0	29.83	+.18	34	32	+ 4	L	0	0	2	0	*	38	28	—
	Aberdeen ...	29.69	34	NW	3	c	29.82	+.20	33	32	+ 3	NW	3	c	3	sfg, c, s	2.7	36	30	0.05
	Leith	29.71	36	NNW	2	c	29.82	+.20	36	32	+ 2	WNW	1	ow	*	c	*	44	34	—
	Shields	29.66	35	NNE	3	bc	29.79	+.26	35	34	- 3	NW	2	0	3	srp, bcp, s	*	40	32	0.04
	Spurn Head ...	29.60	38	NNE	4	b	29.75	+.27	35	34	- 3	NW	4	c	4	b, sp	*	38	32	0.04
	York	29.64	33	NNW	1	b	29.82	+.28	31	30	- 2	NNW	1	bc	*	b, sp	2.3	37	28	0.06
	Loughborough ...	29.64	32	NW	1	b	29.83	+.32	26	26	- 7	WNW	1	bm	*	bo, c, bm	*	35	26	—
	Ardrossan ...	29.73	35	N	1	b	29.86	+.21	33	32	- 1	NNE	1	of	1	b	*	42	27	—
	Malin Head ...	29.75	39	ENE	3	b	29.83	+.18	35	35	- 3	SE	2	c	1	b, sp	*	42	34	0.03
	Belmullet ...	29.77	35	ESE	1	b	29.85	+.16	33	32	0	E	3	b	*	b	*	43	30	0.01
	Donaghadee ...	29.71	40	NE	6	b	29.86	+.23	38	36	- 1	ENE	4	bc	2	b	*	41	32	—
	Liverpool (Bidston)	29.70	35	N	2	b	29.85	+.28	34	31	+ 2	L	0	b	?	b	*	39	31	—
	Holyhead ...	29.70	39	NE	2	bc	29.85	+.27	34	33	- 5	L	0	cw	0	hf, bc	*	40	32	0.01
	Parsonstown ...	29.73	34	N	1	c	29.86	+.23	23	23	- 7	L	0	b	*	c	2.9	38	22	—
	Valencia ...	29.69	37	ENE	2	b	29.76	+.24	39	35	0	E	5	bc	4	b	6.8	43	33	—
	Roche's Point ..	29.68	38	ENE	4	bc	29.81	+.26	42	40	+ 6	SE	5	0	4	bc	*	43	34	—
	Pembroke (St. Ann's Hd.)	29.65	36	ENE	3	b	29.86	+.30	34	33	+ 1	E	4	b	2	b	7.9	40	32	—
	Scilly	29.54	41	NE	3	c	29.78	+.38	40	35	- 1	E	4	c	3	c	6.8	45	35	—
	Prawle Point ...	29.60	38	NNE	4	c	29.85	+.39	30	29	- 4	NNE	3	bc	2	c	*	41	29	—
	Jersey (St. Aubin's)	29.52	40	NE	3	b	29.82	+.42	36	34	+ 2	NE	2	bcm	2	o, bm	*	41	33	—
	Hurst Castle ...	29.59	38	NE	2	b	29.83	+.41	30	29	- 1	NNE	2	bm	2	bcm, b	*	40	29	—
	Dungeness ...	29.52	37	NNE	4	b	29.78	+.36	26	26	- 4	NNW	3	b	2	c, b	*	39	25	0.01
	North Foreland																*			
	London (Brixton) ...	29.61	36	NE	2	b	29.83	+.35	32	30	0	NE	1	og	*	bc, og	0.3	40	29	—
	Oxford	29.68	32	NE	1	b	29.85	+.35	28	27	- 2	NW	1	bef	*	b	*	41	27	—
	Cambridge ...	29.63	33	N	3	0	29.82	+.33	29	29	- 2	NNW	1	0	*	b, o	6.4	42	27	—
	Yarmouth ...	29.53	37	NNE	4	b	29.75	+.31	32	32	+ 5	W	2	f	3	c, b	*	38	29	—
GERMANY & HOLLAND.	Cuxhaven ...	29.44	28	N	4	0	29.69	+.37	22	21	- 10	NNE	2	bph	*	0	*	32	21	—
	Berlin	29.38	31	W	3	0	29.88	+.25	28	27	- 1	NW	4	0	*	0	*	32	27	0.04
	Wiesbaden ...	*	*	*	*	*	29.67	+.24	27	26	+ 4	N	2	bc	*	*	*	36	23	—
	Munich... ..	29.38	25	L	0	0	29.54	+.15	23	23	+ 11	NW	3	s	*	0	*	27	12	0.04
	The Helder ...	29.53	34	NE	3	0	29.71	+.32	35	34	- 1	N	1	bc	1	0	*	36	27	0.08
BELGIUM.	Brussels ...	*	*	*	*	*	29.78	+.35	27	27	0	L	0	f	*	0	*	40	24	—
	Cape Gris Nez...	?	37	E	4	s	?	?	32	30	- 10	E	1	s	1	s	*	43	28	0.04
	Paris	29.50	31	N	2	bc	29.76	+.35	23	23	- 4	N	2	m	*	bc	*	37	23	—
	Brest	29.50	39	ENE	1	0	29.79	+.43	39	37	+ 7	NE	1	c	3	0	*	43	32	—
	Lorient... ...	29.48	40	NE	5	0	29.79	+.45	34	34	+ 2	E	3	c	5	0	*	43	32	—
FRANCE &	Rochefort ...	29.41	37	ENE	4	0	29.69	+.39	33	32	- 4	NE	4	bc	*	0	*	46	30	—
	Belfort	29.41	24	E	3	m	29.61	+.23	25	24	0	ENE	1	s	*	m	*	28	24	—
	Lyons	29.42	32	E	1	0	29.63	+.24	29	28	+ 1	N	1	m	*	0	*	32	28	—
	Nice	29.29	43	L	0	r	29.29	.00	40	40	- 4	E	3	c	3	r	*	45	39	0.16
	Perpignan ...	29.35	47	S	1	0	29.50	+.22	47	43	+ 4	W	2	b	*	0	*	54	43	—
	Biarritz ...	29.33	52	W	4	c	29.61	+.27	49	45	0	NNW	4	r	4	b	*	55	45	0.28
PENINSULA.	Corunna ...																*			
	Lisbon														*		*			
	Azores (P. Delgada)	29.41	61	WSW	5	c	29.39	-.32	56	52	- 3	W	5	0	6	c	*	64	52	0.39

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

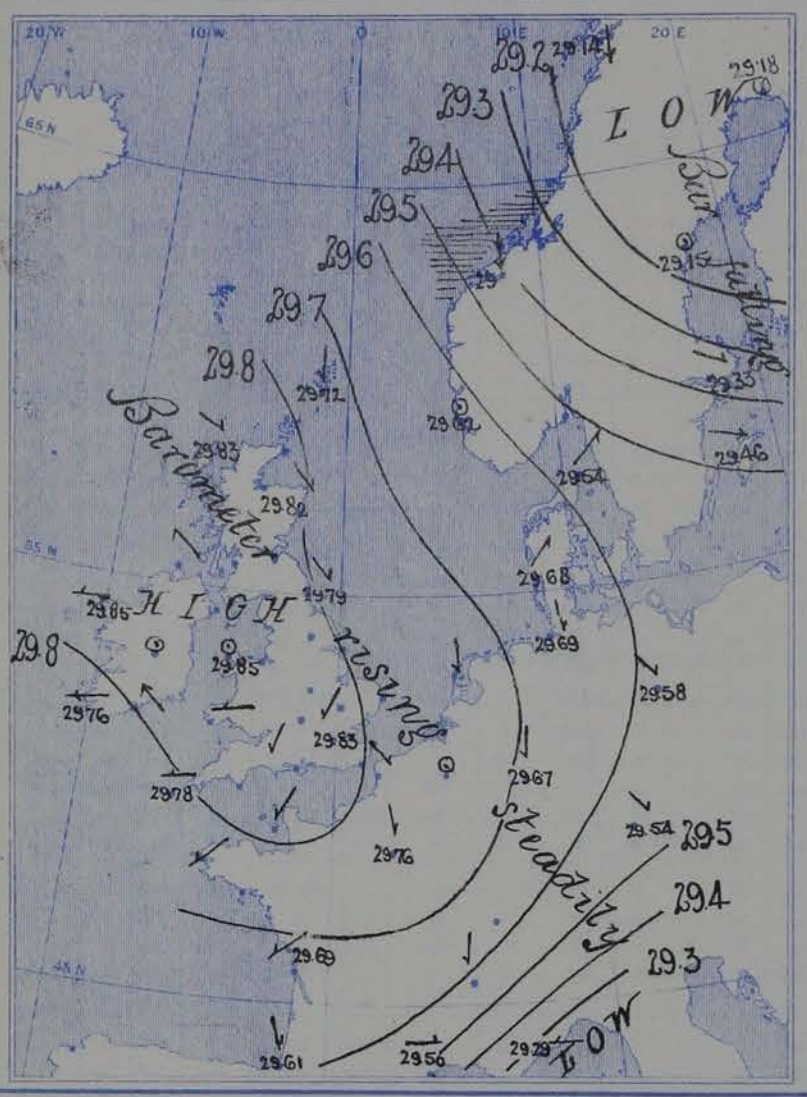
Bright Sunshine yesterday Southport 6.7 *hrs;*

WEATHER CHARTS

FOR Friday, 3rd February, 1899.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those withou' rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 · 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.8 ins. and more in an anticyclone covering nearly the whole of our Islands.
Lowest 29.2 ins. and less over Lapland and the N^rn parts of Sweden, and below 29.3 ins. over the Riviera.
Gradients slight except in the S. of France and N. of Sweden.
Barometer rising slowly in our Islands, falling over Finland, stationary at Nice.

TEMPERATURE

Highest 49° at Biarritz, 40° at Nice and Scilly, 39° at Valencia (Ireland).
Lowest (1) −18° at Haparanda, +3° at Karlstad; (2) 23° at Munich and Paris, 27° at Brussels, 28° at Berlin; (3) 23° at Parsonstown, 26° at Loughborough, 28° at Oxford.
The maxima recorded over our Islands yesterday exceeded 40° in most places, and touched 45° at Scilly, 44° at Leith, and 43° at Belmullet. In Germany they were much lower.

WIND

Light to fresh in force and anticyclonic in direction, NW^ly on our eastern coasts, N^ly in the Channel, and E^ly to SE^ly on our southwestern coasts; NE^ly to E^ly over the Bay of Biscay.

WEATHER

Fine generally. In many parts of our Islands it was clear, in others gloomy, hazy and dull.
Very slight showers of snow had fallen at several stations, both in this country & Germany.
Bright Sunshine recorded yesterday amounted to 7.9 hrs. at Pembroke and between 6 and 7 hrs. at many of our W^rn stations. In London there was only 0.3 hr.

SEA

Smooth off our S. coast, slight in the E, moderate in the SW.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any important change.

FORECASTS

For the 24 hours ending at NOON on 4th FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	Light NW^ly winds and fair dull weather.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NW^ly and N^ly breezes, light; fair, possibly a little snow.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	E^ly and NE^ly breezes, fresh; fair.
WARNINGS	None issued

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.58	31	28	SE	4	b	2
Sumburgh Head	29.61	35	33	N	2	o	4
Stornoway	29.73	38	37	NE	3	c	3
Aberdeen	29.65	36	34	NW	4	c,s,p	4
Shields	29.62	40	35	NNE	3	bc	4
Ardrossan	29.69	42	39	NNE	1	b	1
Malin Head ...	29.71	41	37	NE	3	b	2
Belmullet	29.75	42	37	ESE	3	c	*
Holyhead	29.65	39	37	NE	2	b,p,h	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.61	43	38	ESE	3	b	4
Scilly	29.50	43	37	ENE	4	c	4
Jersey	29.46	40	39	ENE	3	o	3
Hurst Castle ...	29.51	39	37	NE	3	b,m	2
Dungeness ...	29.47	38	37	NE	3	c	2
North Foreland							
London (Westminster)	29.52	41	35	NE	3	bc	*
Yarmouth ...	29.49	38	34	NNE	5	c	5
Rochefort ...	29.33	45	43	E	3	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair and quiet over our Islands as a whole, but cloudy in many places; dull and unsettled over the S. of France and also over central Russia; snow at Bodö and Moscow. Very slight snow showers in the E. of England and some parts of Germany later, but fine and bright in the W. and N. of the British Islands.

Temperature falling over W^rn Europe and low for the time of year. Morning readings highest (1) 60° at Malta, 56° at Algiers, 57° at Nemours; 49° at Biarritz, 44° at Nice, 41° at Scilly. Lowest (1) − 20° to −26° over the White Sea and N. of Finland, +10° at Karlstad, 17° at Bodö; (2) 16° at Riga, 23° at Moscow, 12° at Munich, 27° at Paris; (3) 30° at Nairn and also at Oxford & Parsonstown. Rising to 40° and more over Ireland and England later to 45° at Scilly, 40° at Paris, and 55° at Biarritz. Night cold generally.

Wind light to strong but anticyclonic over the British Islands (N. to E.), and also anticyclonic over northern and southeastern Europe. Cyclonic circulations, however, prevalent over the northwest of Norway, the Baltic and southwest of France.

Barometer highest (1) 29.7 ins. and more to 29.6 ins. over the N^rn parts of Russia and Finland; (2) 29.8 ins. to 29.6 ins. over the SE. of Europe; (3) 29.7 ins. to 29.5 ins. over all the N^rn and W^rn parts of our Islands. Lowest 29.3 ins. and less in three depressions, — one off the NW. of Norway, another over W^rn Russia and the Baltic, and a third over the southwest and south of France. Rising in our Islands and their neighbourhood all day.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday 4th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.29	-13	L	0	b	29.36	+ ·18	-22	-23	− 4	L	0	b	#	b	#	-13	-35	—
	Hernösand ...	29.41	10	NE	4	b	29.58	+ ·43	6	5	+ 1	L	0	b	#	b	#	12	-9	0·12
	Stockholm ...	29.42	22	W	4	0	29.70	+ ·37	11	11	+ 8	WNW	2	b	#	0	#	22	0	—
	Wisby	29.46	30	WNW	8	b	29.73	+ ·27	24	21	+ 5	NNW	6	b	#	b	#	30	14	—
	Karlstad ...	29.62	20	NNW	2	b	29.76	+ ·33	11	11	+ 8	NW	2	0	#	b	#	#	#	—
	Bodö	29.51	19	N	7	s	29.25	+ ·11	18	15	− 5	E	4	0	2	s	#	23	14	—
	Christiansund ...	29.71	29	NNW	3	c	29.48	+ ·08	32	30	+ 1	NW	8	s	6	c	#	32	27	0·12
	Skudesnaes ...	29.72	33	N	2	c	29.75	+ ·13	36	34	+ 6	WNW	4	c	2	ors, c	#	36	30	#
	Færder (Christiania Fjord)	29.63	32	N	4	b	29.72	+ ·26	31	27	+ 10	S	4	0	2	b	#	32	21	—
	Skagen (The Scaw)	29.65	35	NE	2	b	29.76	+ ·22	32	32	+ 11	SSW	3	0	0	b	#	36	19	—
	Fanö	29.76	35	WNW	2	0	29.89	+ ·21	34	34	+ 12	WNW	2	c	#	0	#	37	21	—
BRITISH ISLANDS.	Sumburgh Head	29.79	35	N	1	0	29.76	+ ·04	36	34	+ 2	N	3	c	4	c, o	#	37	32	0·01
	Stornoway ...	29.85	37	L	0	0	29.83	·00	34	33	− 2	WNW	2	ol	2	0	0·0	39	30	—
	Wick	29.86	34	N	2	0	29.84	+ ·02	33	32	0	N	2	bc	1	0	#	35	30	0·02
	Nairn	29.87	35	L	0	0	29.87	+ ·04	27	26	− 7	L	0	c	1	0	#	38	25	—
	Aberdeen ...	29.88	35	WNW	2	og	29.90	+ ·08	29	27	− 4	W	2	bm	1	c, og	0·1	36	28	—
	Leith	29.88	38	NW	1	0	29.88	+ ·06	29	28	− 7	WNW	1	m	#	0	#	40	29	—
	Shields	29.89	37	NNW	2	c	29.93	+ ·14	28	27	− 7	SW	2	m	2	c	#	40	26	—
	Spurn Head ...	29.89	38	NNW	3	0	29.97	+ ·22	38	38	+ 3	SW	2	b	3	o, b	#	40	32	—
	York	29.89	37	NNW	1	b	29.96	+ ·14	28	28	− 3	S	1	b	#	c, o, b, f	3·6	40	27	—
	Loughborough ...	29.92	29	NW	1	b	29.98	+ ·15	22	22	− 4	ESE	1	bf	#	bc, c, bm	#	42	21	—
	Ardrossan ...	29.91	35	NNE	1	bof	29.86	·00	28	27	− 5	NNE	2	bf	1	of, bof	#	37	27	—
	Malin Head ...	29.86	33	SE	3	b	29.72	− ·11	35	33	0	SSE	5	cm	2	c, b	#	38	31	—
	Belmullet ...	29.81	36	ESE	3	b	29.58	− ·27	38	37	+ 5	SE	6	o	#	b	#	40	33	0·01
	Donaghadee ...	29.89	36	S	3	b	29.83	− ·03	40	36	+ 2	SSE	6	bc	4	b	#	42	31	—
	Liverpool (Bidston)	29.92	34	WNW	1	b	29.91	+ ·06	28	27	− 6	SE	2	bc	?	f, b	#	38	27	—
	Holyhead ...	29.93	38	S	1	om	29.87	− ·01	35	32	+ 1	SE	2	bc	1	cm, om	#	40	31	—
	Parsonstown ...	29.67	35	ESE	1	b	29.64	− ·22	40	37	+ 17	ESE	2	o	#	b	5·5	42	22	—
	Valencia ...	29.65	45	ESE	5	og	29.31	− ·45	43	41	+ 4	ESE	7	o	6	c, og	0·9	46	38	0·68
	Roche's Point ..	29.79	45	SSE	4	b	29.54	− ·27	43	43	+ 1	SSE	8	r	6	c	#	45	38	0·48
	Pembroke (St. Ann's Hd.)	29.87	37	SSE	4	b	29.77	− ·09	41	39	+ 7	SSE	7	og	5	b	7·7	42	34	—
	Scilly	29.78	45	SSE	6	c	29.60	− ·18	43	43	+ 3	SE	9	m	5	c	5·2	47	39	0·15
	Prawle Point ...	29.91	40	SE	3	bc	29.86	+ ·01	38	36	+ 8	SE	6	cw	5	bc	#	44	29	—
	Jersey (St. Aubin's)	29.93	39	SE	1	bc	29.95	+ ·13	35	32	− 1	SE	5	bc	4	bc, b	#	46	32	—
	Hurst Castle ...	29.92	35	N	1	b	29.96	+ ·13	39	35	+ 9	SSE	4	bc	3	bm	#	42	28	—
	Dungeness ...	29.90	35	W	2	m	30.01	+ ·23	39	36	+ 13	SSW	4	bc	4	m	#	39	23	0·01
GERMANY & HOLLAND.	North Foreland																#			
	London (Brixton) ...	29.93	31	N	2	bcm	30.00	+ ·7	27	27	− 5	SE	1	f	#	cg, b	0·3	40	24	—
	Oxford	29.96	32	NW	2	b	29.98	+ ·13	24	24	− 4	SE	1	bef	#	bm	#	41	22	—
	Cambridge ...	29.93	32	NNW	1	bc	30.01	+ ·19	23	23	− 6	SW	1	f	#	bc	1·7	41	22	—
	Yarmouth ...	29.86	36	NNW	2	bc	30.00	+ ·25	27	26	− 5	W	2	bm	3	s, c, bc	#	39	24	—
	Cuxhaven ...	29.75	30	SW	2	c	29.92	+ ·23	35	34	+ 13	W	1	o	#	c, sh	#	36	22	0·04
	Berlin	29.80	25	WNW	2	o	29.94	+ ·36	30	29	+ 2	WNW	3	o	#	o	#	32	19	—
	Wiesbaden ...	#	#	#	#	#	30.13	+ ·46	19	18	− 8	NW	2	b	#	#	#	34	18	—
	Munich... ..	29.83	23	W	3	s	30.11	+ ·57	17	17	− 6	NW	2	b	#	s	#	28	16	0·04
	The Helder ...																#			
FRANCE & BELGIUM.	Brussels ...	#	#	#	#	#	30.10	+ ·32	27	26	0	SW	1	b	#	o	#	37	25	—
	Cape Gris Nez...	?	38	WNW	1	o	?	?	30	29	− 2	SSE	3	o	2	o	#	39	28	?—
	Paris	29.97	28	N	1	o	30.12	+ ·36	18	18	− 5	L	0	f	#	o	#	32	16	—
	Brest	29.83	41	SSE	3	o	29.76	− ·03	41	40	+ 2	SE	4	o	5	o	#	45	36	—
	Lorient... ...	29.91	36	SSE	3	c	29.86	+ ·07	36	32	+ 2	SSE	5	c	5	c	#	46	32	—
	Rochefort ...	29.93	37	ENE	2	b	29.94	+ ·25	28	26	− 5	ESE	3	b	#	b	#	43	25	—
	Belfort	29.89	27	ENE	1	f	30.12	+ ·51	20	19	− 5	NE	4	m	#	f	#	30	20	—
	Lyons	29.92	29	N	1	b	30.13	+ ·50	23	21	− 6	NNW	1	b	#	b	#	34	22	—
	Nice	29.44	44	E	2	b	29.78	+ ·49	38	32	− 2	NE	2	b	4	b	#	52	37	—
	Perpignan ...	29.83	44	NW	3	bc	29.98	+ ·48	33	32	− 14	W	2	b	#	bc	#	52	31	—
	Biarritz ...	29.87	45	NNW	2	o	29.84	+ ·23	37	36	− 12	ESE	4	o	2	o	#	49	36	—
PENINSULA.	Corunna ...																#			
	Lisbon	29.93	58	SSW	5	o	29.96	+ ·05	58	57	+ 8	SSW	5	o	#	o	#	59	50	0·87
	Azores (P. Delgada)	29.47	51	W	5	r	29.53	+ ·14	53	48	− 3	W	5	bc	6	r	#	63	45	0·16

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster*

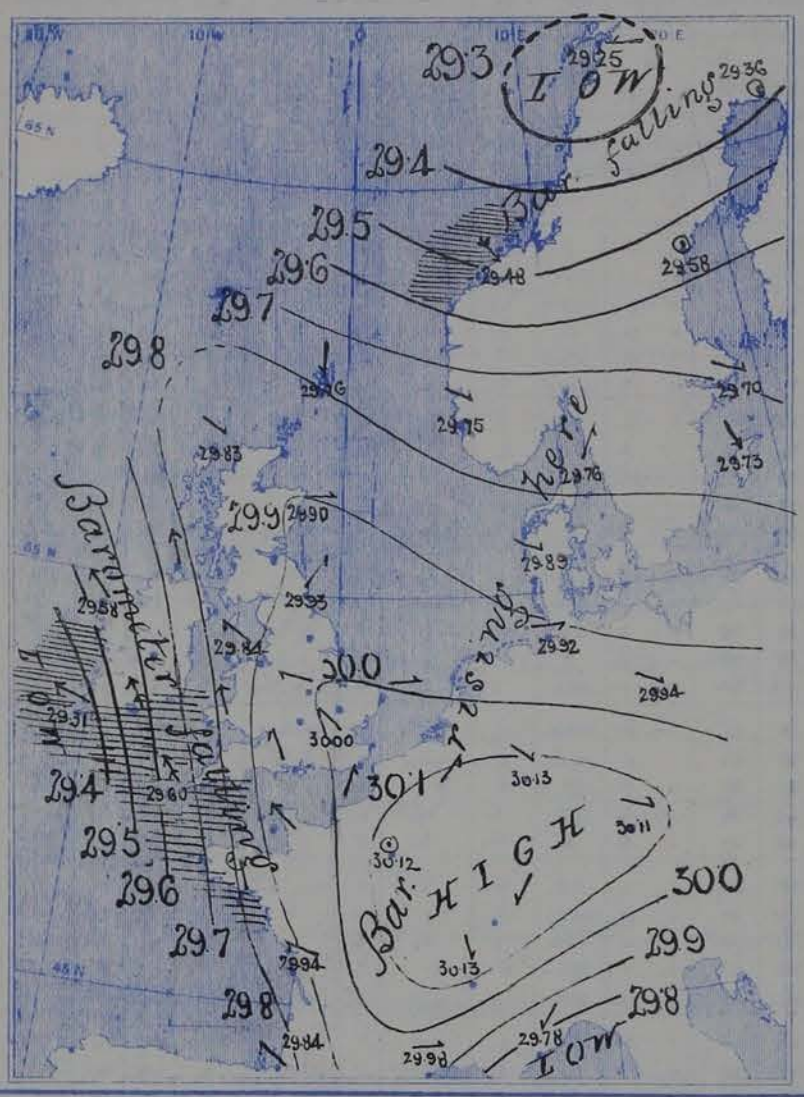
Bright Sunshine yesterday Southport 6·9 hrs;

WEATHER CHARTS

FOR *Saturday, 4th February, 1899.*

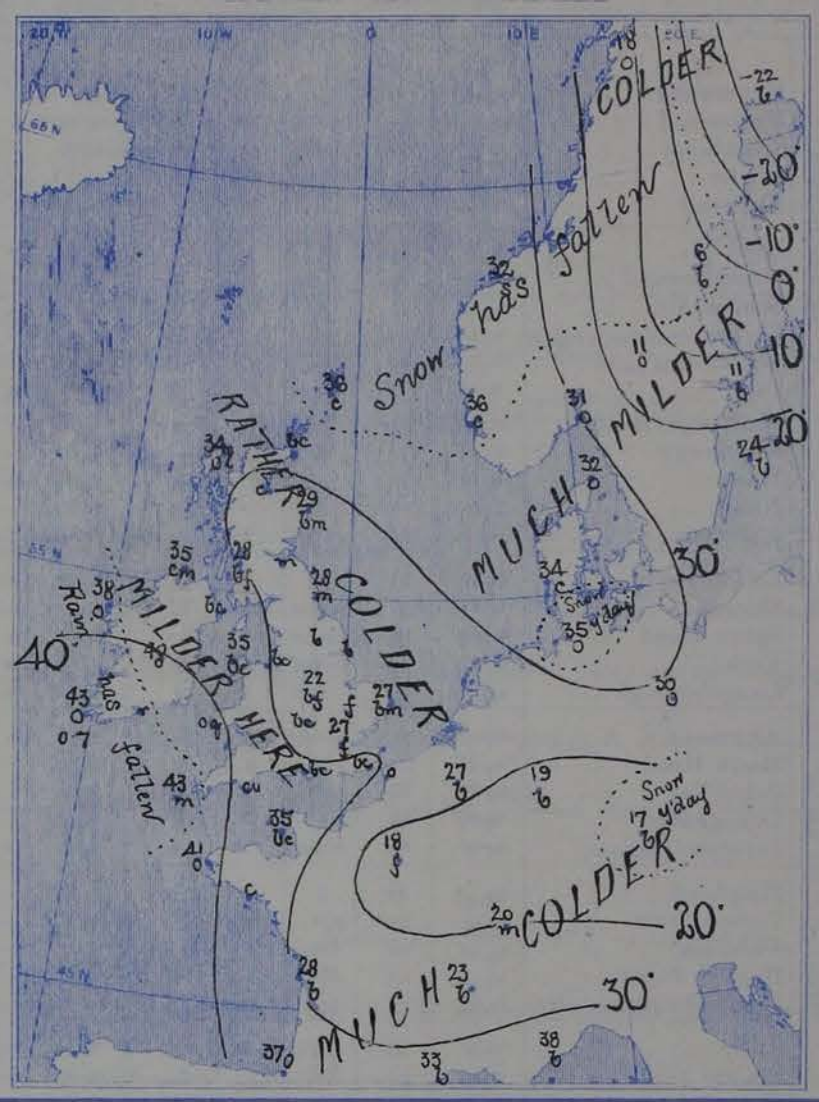
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; *Calm* ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus 0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum	Daily Minimum	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1·65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	−5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and more to 30.0 ins over the E^rn. parts of France and the W. of Germany.
Lowest below 29.4 ins. in a depression off our SW^rn. coasts, and below 29.3 ins. in another over the NW. of Norway.
Gradients rather steep on our SW^rn. coasts, slight over England, France and Germany.
Barometer falling decidedly at Valencia, rising over the North Sea and Scandinavia, falling slightly in London.

TEMPERATURE

Highest 43° (and rising) on our extreme SW. coasts.
Lowest (1) −22° F. at Haparanda, +6° at Hernösand; (2) 22° at Loughborough, 24° at Oxford, 27° at Nairn and in London; (3) 17° at Munich, 18 at Paris, and 19° at Wiesbaden.
Maxima recorded yesterday exceeded 40° almost all over the United Kingdom, but did not exceed 35° at Wick, 36° at Aberdeen, 39° at Dungeness, or 38° at Liverpool.

WIND

(1) SE^ly. at our western and southwestern stations and blowing a gale at Scilly & Roches Pt., SE^ly. light over England as a whole, very variable in Scotland.
(2) Over France and Germany it was very light and in most places WNW^ly, but backing at the western French stations.

WEATHER

Fair, but frosty and foggy over the E^rn. parts of England and over Scotland; (2) becoming mild over Ireland and our W^rn. coasts. Very slight showers have fallen at a few places, considerable rain in the S. of Ireland (0.68 in at Valencia).
Bright Sunshine recorded yesterday was slight in Scotland, from 5 to 7 hrs. over Ireland and England.

SEA

Rough and rising on our SW. coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Rougher, milder and unsettled weather is probable generally.

FORECASTS

For the 24 hours ending at NOON on 5th. FEBRUARY 1899.

DISTRICTS.	FORECASTS.
▲ 0 SCOTLAND NORTH ▲ 1 SCOTLAND EAST 2 ENGLAND N.E.	SE^ly. and S^ly. winds and gales; snow and rain.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	SE^ly. winds, increasing greatly in strength; milder, rain and snow.
▲ 6 SCOTLAND WEST ▲ 7 ENGLAND N.W. ▲ 8 ENGLAND S.W. ▲ 9 IRELAND NORTH ▲ 10 IRELAND SOUTH	S^ly. gales and rain, squally.
WARNINGS	At 10.5 am. today to districts 0, 1, and 6 to 10. Hoist South Cone.

Note. The **South Cone**, *point downwards* (▲), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.65	35	33	N	4	ors	1
Sumburgh Head	29.77	35	34	N	1	c	4
Stornoway	29.84	29	37	WNW	1	o	1
Aberdeen	29.85	36	34	NW	2	c	2
Shields	29.86	38	35	NW	2	c	3
Ardrossan	29.88	37	35	2	0	of	0
Malin Head ...	29.85	38	36	SSE	2	c	1
Belmullet	29.89	40	38	SE	3	b	*
Holyhead	29.89	40	37	SE	1	cw	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.72	44	39	ESE	5	c	5
Scilly	29.81	46	41	SE	4	c	3
Jersey	29.89	44	39	ENE	3	bc	3
Hurst Castle ...	29.88	41	38	NE	1	bm	1
Dungeness ...	29.85	35	34	E	1	m	1
North Foreland							
London (Westminster)	29.86	40	36	N	2	c	
Yarmouth ...	29.81	39	36	NNW	2	c	3*
Rochefort ...	29.78	40	38	ENE	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over the British Islands, France and their neighbourhood, but becoming unsettled on our SW. coasts; less settled on the Continent, with slight snow at some German, Russian and Scandinavian stations. Rain in the S. of France and N. of Italy. Becoming much less settled in the SW. of our Islands later, and considerable rain falling in the S. of Ireland.

Temperature still decreasing over Gt. Britain and France. Morning readings highest 58° at Malta, 55° at Oran; 49° at Biarritz, 42° at Roche's Pt. and 40° at Scilly. Lowest (1) -26° F at Archangel, -18° at Haparanda, +3° at Stockholm, 26° at Moscow; (2) 23° at Vienna and Paris, 29° at Lyons; (3) 23° at Parsonstown, 26° at Loughborough, 32° in London. Rising later to 40° or more over the greater part of England and Ireland, and touching 46° at Valencia, 47° at Scilly.

Wind light and anticyclonic over our Islands and their neighbourhood – NW. by W. in the east and E. by S. to SE. by S. in the west. N. by E. to W. by S. over the greater part of the Continent, and blowing hard in Norway; but NE. by E. in the west of France. Increasing from SE. on our southwest coasts later, with rain. Gale in Norway dying down.

Barometer in morning highest 29.9 ins. and more over Portugal, 29.8 ins. and more over the greater part of the British Islands, and 29.6 ins. and more over the S. of Russia. Lowest 29.2 ins. and less in depressions over Lapland, the N. of Sweden and N. of Russia, and 29.3 ins. and less in a small disturbance over the N. of the Mediterranean. New depression evidently approaching our SW. coasts later, and barometer falling in the SW. of Ireland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 5th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.27	-18	2	0	b	29.23	-.13	-20	-21	+ 2	N	2	0	#	b	#	-11	-33	—
	Hernösand ...	29.12	24	S	2	0	29.14	-.44	11	11	+ 5	NE	6	s	#	0	#	24	0	0.08
	Stockholm ...	29.36	22	SW	2	b	29.13	-.57	23	22	+ 12	WNW	2	c	#	b	#	27	9	—
	Wisby	29.52	29	NW	6	0	29.22	-.51	31	30	+ 7	NW	8	s	#	0	#	31	19	—
	Karlstad ...	29.38	23	WSW	2	b	29.24	-.52	23	22	+ 12	NNE	2	c	#	b	#	#	#	—
	Bodö	29.06	15	E	2	b	29.39	+.14	13	10	— 5	E	1	0	1	b	#	18	9	—
	Christiansund ...	29.38	28	NW	8	s	29.43	-.05	27	25	— 5	N	8	s	6	s	#	30	23	0.63
	Skudesnaes ...	29.62	37	NW	4	0	29.50	-.25	25	22	— 11	N	6	c	2	0	#	37	25	#
	Færder (Christiania Fjord)	29.45	35	WSW	2	bc	29.27	-.45	32	28	+ 1	W	5	0	4	bc	#	36	28	—
	Skagen (The Scaw)	29.54	37	NW	4	bc	29.31	-.45	35	32	+ 3	NW	4	bc	1	bc	#	37	30	—
	Fanö	29.78	38	W	6	0	29.55	-.34	38	35	+ 4	W	4	c	#	0	#	39	34	—
	Sumburgh Head	29.71	34	NNW	2	0	29.69	-.07	27	26	— 9	N	2	0	4	bc,0	#	37	25	—
	Stornoway ...	29.72	36	SE	2	c	29.69	-.14	35	34	+ 1	ESE	3	0	3	0,c	0.3	39	32	0.03
	Wick	29.76	36	N	2	bc	29.75	-.09	33	31	0	NE	4	0	3	bc	#	42	30	—
	Nairn	29.74	29	2	0	b	29.69	-.18	30	29	+ 3	2	0	0	0	b	#	39	12	0.06
	Aberdeen ...	29.77	29	WNW	2	b	29.68	-.22	32	31	+ 3	NNW	3	cs	3	b	7.1	36	22	—
BRITISH ISLANDS.	Leith	29.69	34	WNW	1	m	29.61	-.27	35	33	+ 6	NNE	1	c	#	m	#	40	29	—
	Shields ...	29.78	36	SW	2	f	29.60	-.33	33	33	+ 5	NW	2	f	2	f,sp f	#	38	26	—
	Spurn Head ...	29.81	36	SSE	4	b	29.56	-.41	34	34	— 4	NNW	3	osp	4	b,0	#	38	32	0.01
	York	29.79	34	S	2	0	29.60	-.36	32	31	+ 4	ENE	1	0	#	0	0.0	36	28	—
	Loughborough ...	29.83	32	SSE	3	0	29.55	-.49	33	33	+ 11	NE	1	ogfd	#	cm,os,f	#	37	22	0.02
	Ardrossan ...	29.70	37	ENE	3	0	29.62	-.24	33	33	+ 5	NNE	2	of	1	of,of,s	#	40	27	0.02
	Malin Head ...	29.56	36	SSE	5	r	29.54	-.18	40	40	+ 5	SSE	5	cm	3	o,r	#	40	34	0.01
	Belmullet ...	29.48	40	SSE	4	bc	29.55	-.03	43	42	+ 5	ESE	1	0	#	r,bc	#	43	38	0.03
	Donaghadee ...	29.64	39	S	5	r	29.58	-.25	39	38	— 1	ESE	5	0	3	r	#	42	37	0.05
	Liverpool (Bidston)	29.73	32	SE	3	s	29.56	-.35	35	34	+ 7	ESE	1	0	?	s	#	35	28	0.22
	Holyhead ...	29.67	39	S	4	0	29.53	-.31	38	38	+ 3	NE	3	f	1	0	#	41	32	0.10
	Parsonstown ...	29.52	43	SE	1	c	29.48	-.16	41	40	+ 1	2	0	0	#	cq	0.9	45	34	0.18
	Valencia ...	29.44	47	SSE	3	opm	29.47	+.16	42	41	— 1	2	0	c	4	bc,c,opm	4.3	54	40	0.11
	Roche's Point ..	29.51	48	S	4	bc	29.50	-.04	45	44	+ 2	WSW	2	bc	4	bc,sp	#	52	41	0.20
	Pembroke (St. Ann's Hd.)	29.62	43	SSE	6	0	29.52	-.25	42	40	+ 1	SE	3	og	4	0	0.0	43	40	0.12
	Scilly	29.56	50	S	4	0	29.50	-.10	48	47	+ 5	W	5	c	5	rq,0,2	1.7	54	43	0.47
	Prawle Point ...	29.73	42	SE	4	0	29.41	-.45	46	45	+ 8	W	5	cu	4	sp,or	#	47	32	0.45
	Jersey (St. Aubin's)	29.83	39	SSE	5	ogp	29.57	-.38	50	48	+ 15	W	6	cmp	5	rhs,pg	#	50	34	0.37
	Hurst Castle ...	29.82	38	S	4	opts	29.40	-.56	47	46	+ 8	SW	3	p	3	o,srp	#	47	36	0.41
	Dungeness ...	29.89	39	SSE	5	c	29.47	-.54	43	43	+ 4	SSE	5	op	4	b,c	#	43	38	0.22
	North Foreland																#			
	London (Brixton) ...	29.85	37	SSE	3	0	29.49	-.51	36	36	+ 9	S	1	org	#	cg,or	2.6	41	27	0.30
	Oxford	29.79	34	SSE	1	0	29.50	-.48	33	33	+ 9	NE	1	s	#	c,rs	#	38	24	0.41
	Cambridge ...	29.87	33	S	2	s	29.53	-.48	34	33	+ 11	2	0	s	#	c,s	2.6	41	22	0.12
	Yarmouth ...	29.88	35	SSW	3	c	29.54	-.46	36	35	+ 9	SSW	1	0	3	bc,c	#	39	25	0.03
GERMANY & HOLLAND.	Cuxhaven ...	29.95	36	WSW	3	c	29.61	-.31	31	30	— 4	SW	1	0	#	c	#	36	30	0.04
	Berlin	29.99	34	W	3	0	29.78	-.16	24	23	— 4	SW	4	c	#		#	36	23	—
	Wiesbaden ...	#	#	#	#	#									#	#	#			
	Munich	30.13	12	E	1	b	29.88	-.23	7	6	— 10	SSE	3	bc	#	b	#	?	0	—
	The Helder ...	29.93	38	SW	2	b	29.58		28	27		S	1	c	1	b	#	43	28	—
BELGIUM.	Brussels ...	#	#	#	#	#	29.64	-.46	32	30	+ 5	SSW	2	r	#	0	#	39	26	0.08
	Cape Gris Nez ...	?	37	S	4	0	?	?	36	35	+ 6	SSW	4	r	4	0	#	37	30	0.28
	Paris	29.98	29	ESE	2	bc	29.71	-.41	34	33	+ 16	S	3	0	#	bc	#	37	18	0.16
	Brest	29.69	45	SE	3	0	29.59	-.17	50	47	+ 9	W	6	bc	6	0	#	45	41	0.70
	Lorient	29.60	43	SE	5	0	29.71	-.15	50	48	+ 14	W	5	c	6	0	#	50	34	1.26
FRANCE &	Rochefort ...	29.88	42	SE	3	0	29.84	-.10	48	47	+ 20	WSW	3	bc	#	0	#	?	28	—
	Belfort	30.07	26	ENE	2	b	29.88	-.24	26	23	+ 6	NNW	1	c	#	b	#	30	17	—
	Lyons	30.13	27	SE	1	bc	29.97	-.16	38	36	+ 15	SSW	3	0	#	bc	#	39	23	0.04
	Nice	30.04	43	2	0	c	30.11	+.33	37	34	— 1	2	0	b	2	c	#	52	37	—
	Perpignan ...	30.03	45	SE	1	c	30.06	+.08	43	41	+ 10	SW	1	0	#	c	#	57	33	—
	Biarritz ...	29.82	57	ESE	3	0	29.88	+.04	55	52	+ 18	2	0	0	5	0	#	63	37	—
PENIN-SULA.	Corunna ...																#			
	Lisbon	30.03	58	SSW	5	0	29.93	-.03	59	57	+ 1	SSW	6	0	#	0	#	61	57	0.51
	Azores (P. Delgada)	29.42	54	W	6	r	29.51	-.02	54	49	+ 1	W	6	c	6	r	#	59	48	0.24

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

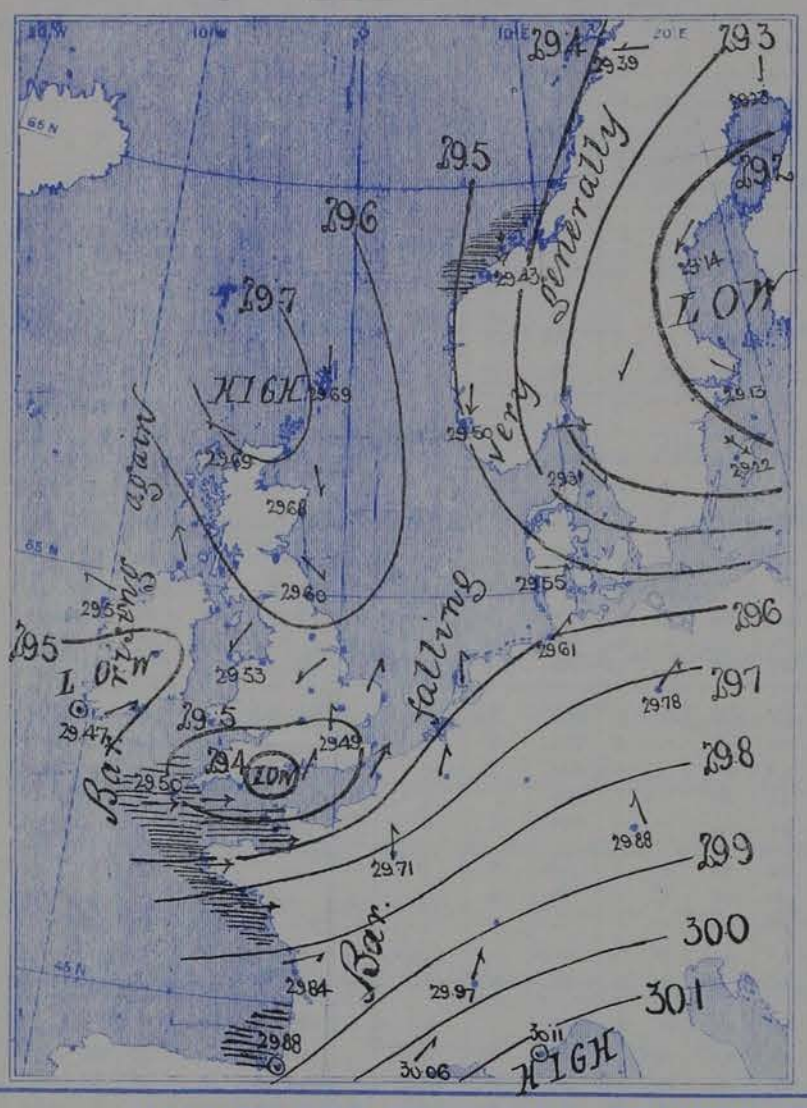
Bright Sunshine yesterday Southport 0.0 *hrs;*

WEATHER CHARTS

FOR *Sunday, 5th February,* 1899.

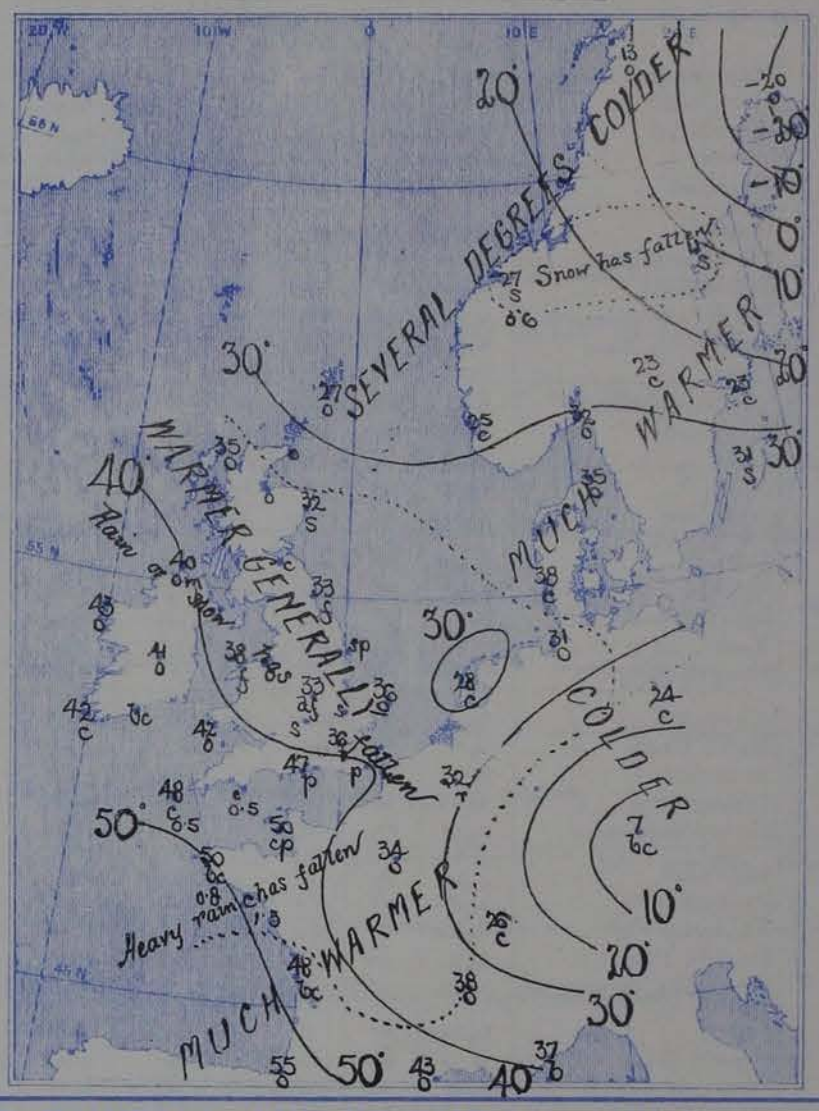
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough : *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 · 4	32 · 5	64	1891	0	1895	1 · 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. to 29.8 ins. over the S.ern parts of France, (2) 29.7 ins and more to 29.6 ins. over the N.ern and N.E.rn parts of Gt. Britain;
Lowest 29.2 ins. and less over the Gulf of Bothnia and apparently still lower over Sweden; (2) 29.4 ins. and less in a small depression over Dorsetshire.
Gradients rather steep over the English Channel and over the Baltic.
Barometer rising in the S. of Ireland – Depression in S. moving E.wds quickly.

TEMPERATURE

Highest 55° at Biarritz, 50° at Brest, 48° at Scilly, 45° at Roches Point.
Lowest (1) – 20° at Haparanda, + 23° at Karlstad, 25° at Skudesnaes; (2) 30° at Nairn, 32° at York, 33° at Oxford; (3) 24° at Berlin, 26° at Belfort, 34° at Paris.
It has risen to between 50° and 54° in the extreme SW. of our Islands, to 57° at Perpignan, and to 63° at Biarritz during the past 24 hrs. but has been very low over France; +17° at Belfort +26° at Paris, as well as at Brussels during the night.

WIND

(1) N.ly over Norway, W.ly over Denmark, NW.ly at Wisby and blowing strongly in places.
(2) Very variable in our Islands, a complete cyclonic circulation of light winds being found over the southern half of England, calms in the S. of Ireland, but (3) a S.ly breeze in the N. of Ireland.

WEATHER

Very dull and unsettled generally; snow in Norway and at some of our stations, rain in the SE. of England.
The amount of these over the S.ern parts of the Kingdom had been rather considerable – Heavy in the W. of France – considerable at Lisbon and in the Azores. Bright Sunshine recorded yesterday was as much as 7.1 hrs. at Aberdeen, 4.3 hrs. at Valencia, and 2.6 hrs. in London and at Cambridge; scarcely any at our other stations.

SEA

Rough at Christiansund, rather rough in the SW. and S. – moderate to slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 6TH FEBRUARY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	At 9.25 am. today to districts 0, 1 and 6 to 10. Lower Cone.

Note. The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.73	35	34	NNW	4	c	2
Sumburgh Head	29.75	36	33	NNW	2	bc	4
Stornoway	29.78	38	37	SE	2	o	2
Aberdeen	29.83	36	32	W	2	b	1
Shields	29.87	36	34	SW	2	f	2
Ardrossan	29.77	39	38	ESE	4	c	3
Malin Head ...	29.64	39	37	SSE	5	o	2
Belmullet	29.65	38	37	SSE	5	r	*
Holyhead	29.74	34	33	SE	3	sqm	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.45	53	51	S	3	c	6
Scilly	29.59	53	51	S	5	c	7
Jersey	29.88	36	33	SE	6	o	5
Hurst Castle ...	29.89	38	35	SSE	4	o	2
Dungeness ...	29.97	40	38	S	4	b	3
North Foreland							
London (Westminster)	29.93	39	34	S	5	c	*
Yarmouth ...	29.97	38	35	SSW	3	bc	3
Rochefort ...	29.92	39	34	SE	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning clear over the E and N. of France, fair over the E^rn. half of Gt. Britain, cloudy rainy and very unsettled over the W^rn. and SW^rn. parts of our Island, with rain in places; fine over Sweden, unsettled over Norway. A depression off our W^rn. coasts subsequently moving NNW^wds.; again becoming unsettled at Valencia in evening, and a considerable quantity of rain in the S. and SW. of England later.

Temperature in morning highest 59° at Algiers, 58° at Lisbon; 43° on our SW. coasts, 40° at Parsonstown. Lowest (1) −28° F. at Archangel, −22° at Uleaborg, +11° at Moscow; (2) 18° at Paris, 20° at Belfort; (3) 22° at Loughborough, 27° in London. Rising later to above 40° over the greater part of our Islands to between 50° and 54° on our extreme SW. coasts to 57° at Perpignan, and to 63° at Biarritz.

Wind (1) Light and anticyclonic over France and Germany, (2) NW^ly. to W^ly. and variable over N^rn. Europe; (3) SE^ly. in our Islands and blowing a gale at Scilly and Roche's Pt. Becoming strong and squally from the S^rn. over England later, but falling light in Ireland.

Barometer 30·1 ins. and more to 30·0 ins. over France and the W. of Germany. Lowest (1) about 29·3 ins. in a depression approaching the SW. of Ireland; (2) 29·3 ins. and less in another over the extreme NW. of Norway and W. of Lapland; (3) below 29·6 ins. in another over the E. of Italy. The disturbance in Ireland moving NW^wds. later, but barometer at Valencia, after rising suddenly, beginning to fall again.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Monday 6th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M. S. L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.24	-11	N	2	b	29.32	+.09	7	6	+.27	NW	6	b	#	b	#	?	-29	—
	Hernösand ...	29.50	9	N	2	b	29.66	+.52	0	0	-11	2	0	b	#	b	#	25	?	0.04
	Stockholm ...	29.58	7	N	2	b	29.84	+.71	2	1	-21	W	2	b	#	b	#	25	?	—
	Wisby	29.46	22	N	10	s	29.89	+.67	18	16	-13	N	8	b	#	s	#	39	18	0.04
	Karlstad ...	29.73	8	NW	4	b	29.94	+.70	-1	-2	-24	WNW	2	b	#	b	#	#	#	—
	Bodö	29.57	20	E	4	c	29.43	+.04	16	13	+3	E	4	o	1	c	#	20	12	—
	Christiansund ...	29.74	27	NW	4	s	29.78	+.35	30	29	+3	NNW	9	o	6	s	#	30	23	0.20
	Skudesnaes ...	29.85	26	2	0	b	30.02	+.52	27	25	+2	E	4	b	1	b	#	30	25	#
	Færder (Christiania Fjord)	29.75	23	N	6	b	29.95	+.68	23	20	-9	WSW	2	b	1	b	#	32	21	—
	Skagen (The Scaw)	29.77	24	NE	5	b	30.02	+.71	22	22	-13	WSW	2	b	0	b	#	?	?	—
	Fanö	29.85	26	NNE	2	b	30.12	+.57	23	22	-15	ESE	2	b	#	b	#	39	21	—
BRITISH ISLANDS.	Sumburgh Head	29.87	28	N	3	csp	29.94	+.25	32	32	+5	SE	1	c	4	csp	#	33	25	0.02
	Stornoway ...	29.80	33	SE	5	c	29.75	+.06	35	34	0	SSE	4	c	4	hrsp, c	3.1	36	31	0.05
	Wick	29.86	33	NE	5	o	29.88	+.13	38	36	+5	SE	6	cw	4	osp	#	38	30	0.04
	Nairn	29.85	30	2	0	bc	29.84	+.15	33	31	+3	E	1	c	2	bc	#	34	22	—
	Aberdeen ...	29.86	32	E	6	csp, q	29.91	+.23	36	34	+4	SE	6	ogq sp	6	cq, sp	24	37	30	0.01
	Leith	29.79	37	ENE	3	o	29.83	+.22	36	34	+1	ENE	1	s	#	o	#	38	34	0.01
	Shields	29.77	39	NNE	4	o	29.84	+.24	39	36	+6	SE	4	o	4	f, s, o	#	41	32	0.01
	Spurn Head ...	29.72	39	NE	5	bc	29.82	+.26	37	35	+3	SE	6	o	6	bc	#	40	33	—
	York	29.74	37	NE	1	o	29.87	+.27	34	34	+2	ESE	2	os	#	o	0.0	37	31	—
	Loughborough ...	29.73	32	ESE	1	f	29.80	+.25	34	34	+1	SE	3	osp	#	sf, c, op	#	37	29	0.01
	Ardrossan ...	29.75	35	ENE	4	of	29.74	+.12	33	33	0	NE	4	of	2	of, s	#	37	31	0.02
	Malin Head ...	29.62	39	SE	6	om	29.52	-.02	38	38	-2	SSE	5	omp	3	om	#	40	36	0.09
	Belmullet ...	29.50	42	ESE	5	o	29.45	-.10	43	43	0	SE	5	c	#	bc, o	#	44	40	0.03
	Donaghadee ...	29.68	40	E	6	c	29.65	+.07	41	40	+2	SE	8	c	6	c	#	41	38	0.21
	Liverpool (Bidston)	29.72	35	E	1	c	29.73	+.17	34	34	-1	ESE	5	s	?	f, c	#	40	34	0.17
	Holyhead ...	29.63	39	NE	5	f	29.64	+.11	39	39	+1	E	1	ogm	1	f	#	41	37	0.24
	Parsonstown ...	29.49	44	E	2	o	29.52	+.04	43	43	+2	SE	1	bc	#	oq	0.0	46	40	0.05
	Valencia ...	29.27	46	SSE	7	r	29.43	-.04	49	47	+7	S	5	op	5	r	2.0	51	41	0.45
	Roche's Point ..	29.43	47	SE	5	r	29.53	+.03	47	45	+2	S	3	bc	4	r	#	49	42	0.48
	Pembroke (St. Ann's Hd.)	29.60	43	SE	6	bc	29.62	+.10	43	42	+1	SE	6	ogm	5	bc	2.1	46	35	0.60
	Scilly	29.50	51	SSE	5	r	29.52	+.02	48	48	0	W	1	bc	4	bc, r	3.5	54	46	0.09
	Prawle Point ...	29.66	45	SE	3	o	29.57	+.16	46	45	0	SSE	3	or	4	c, or	#	48	41	0.75
	Jersey (St. Aubin's)	29.70	49	WSW	2	om	29.55	-.02	46	46	-4	ESE	4	orm	3	c, om	#	53	44	0.28
	Hurst Castle ...	29.73	40	ENE	1	o	29.62	+.22	43	41	-4	ESE	5	rm	3	o	#	48	39	0.02
	Dungeness ...	29.69	38	N	3	o	29.79	+.32	39	39	-4	E	5	o	4	o	#	45	37	0.09
GERMANY & HOLLAND.	North Foreland																#			
	London (Brixton) ...	29.76	38	NE	2	o	29.78	+.29	39	37	+3	ESE	5	o	#	gfd, o	0.0	39	36	0.07
	Oxford	29.79	34	E	2	o	29.75	+.25	39	37	+6	ESE	4	o	#	os	#	39	33	0.05
	Cambridge ...	29.73	34	NNW	2	om	29.84	+.31	37	36	+3	ESE	3	om	#	s, om	0.0	37	31	0.06
	Yarmouth ...	29.61	40	NNW	3	c	29.87	+.33	35	33	-1	ESE	7	bc	6	c	#	40	34	0.03
	Cuxhaven ...	29.52	34	WSW	2	o	30.09	+.48	25	24	-6	E	3	b	#	o	#	34	25	—
	Berlin	29.57	32	WNW	3	o	30.10	+.32	21	19	-3	NNE	3	b	#	o	#	34	19	—
	Wiesbaden ...	*	*	*	*	*	29.95		34	33		NE	2	o	#	*	#	37	32	0.43
	Munich... ..	29.74	37	SW	5	o	29.91	+.03	36	36	+29	SW	4	r	#	o	#	39	7	0.08
	The Helder ...	29.65	38	NNE	5	o	30.02	+.44	29	28	+1	ESE	3	b	2	o	#	39	28	—
BELGIUM.	Brussels ...	*	*	*	*	*	29.91	+.27	32	32	0	E	3	f	#	o	#	39	30	0.20
	Cape Gris Nez...	?	42	NE	3	o		?	35	34	-1	E	3	f	3	o	#	46	34	0.51
	Paris	29.76	48	SW	3	o	29.78	+.07	38	38	+4	E	2	m	#	o	#	51	04	—
	Brest	29.59	50	ESE	2	o	29.58	-.01	49	47	-1	NW	2	bc	5	o	#	52	45	0.35
	Lorient... ...	29.66	50	SW	4	c	29.58	-.13	39	38	-11	WNW	5	c	5	c	#	55	37	0.12
FRANCE &	Rochefort ...	29.78	50	S	3	c	29.62	-.22	50	49	+2	SW	2	r	#	c	#	59	45	0.59
	Belfort	29.80	41	SW	5	b	29.83	-.05	35	34	+9	ENE	3	c	#	b	#	45	26	0.04
	Lyons	30.28	40	S	1	b	29.88	-.09	35	35	-3	S	1	o	#	b	#	47	33	—
	Nice	29.97	45	2	0	b	29.90	-.21	41	38	+4	E	4	o	3	b	#	52	37	—
	Perpignan ...	29.98	47	NE	2	o	29.76	-.30	46	46	+3	NE	2	o	#	o	#	53	46	—
	Biarritz ...	29.72	59	SSE	2	o	29.75	-.13	52	50	-3	WSW	6	r	5	o	#	64	52	0.12
PENINSULA.	Corunna ...																#			
	Lisbon														#		#			
	Azores (P. Delgada)																#			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

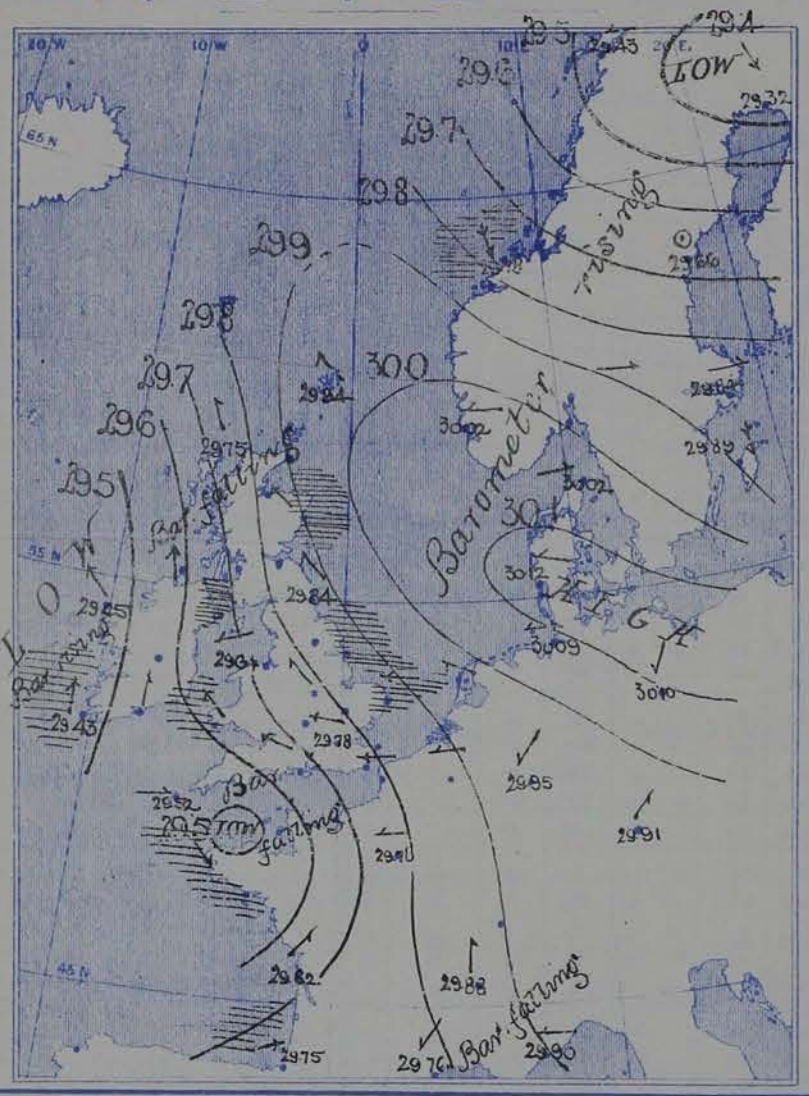
Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR *Monday, 6th February,* 1899.

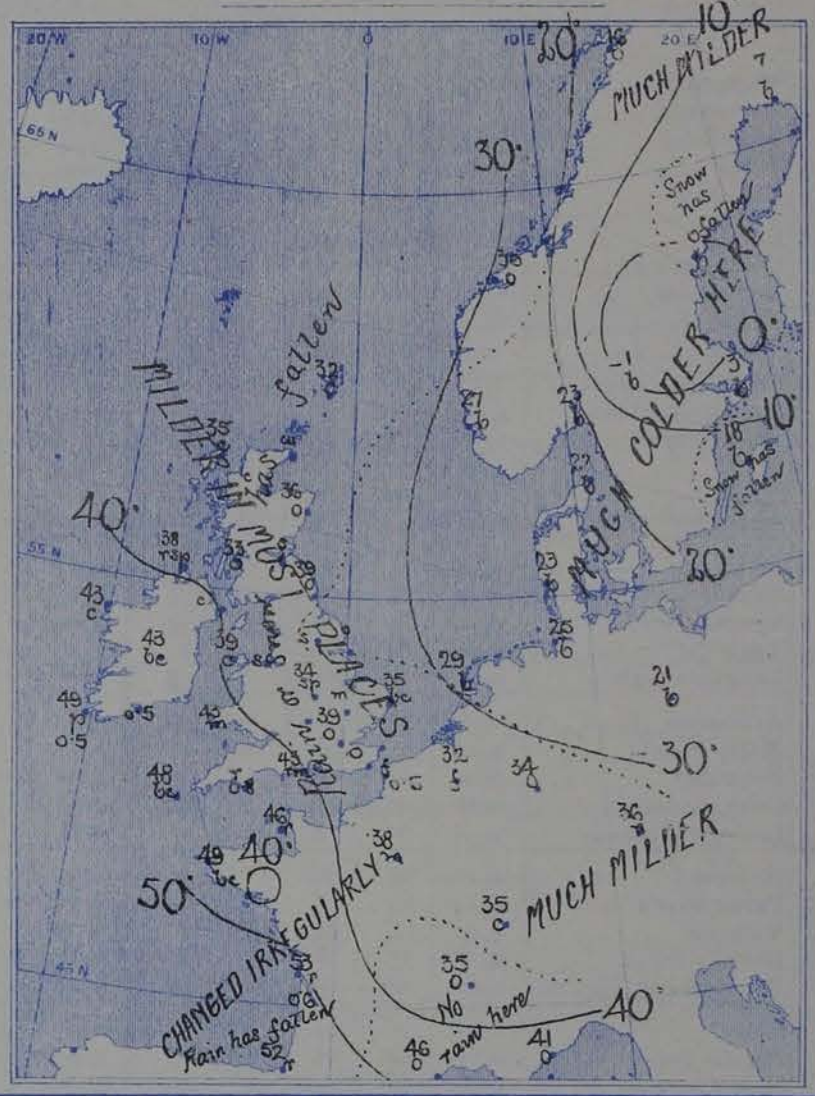
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those withou' rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.12 ins. at Fano, and 30.1 ins. to 29.9 ins. all over the North Sea and Germany.
Lowest 29.5 ins. and less over the W. of Ireland, and about 29.5 ins. in a small secondary disturbance at the mouth of the Channel.
Gradients rather steep over our Islands, but very irregular in the SW.
Barometer rising in the S. of Ireland.

TEMPERATURE

Highest 52° at Biarritz, 48° at Scilly, 49° at Valencia
Lowest (1) 33° at Nairn, and Ardrossan, 36° at Aberdeen, 34° at York; (2) Zero at Hernösand, 21° at Berlin, 25° at Cuxhaven.
It rose to 64° at Biarritz, 55° at Lorient, and to between 48° and 45° for a short time at a few of our SWrn. stations yesterday, but did not exceed 40° in the SE, and only touched 34° at Nairn.

WIND

SE. by E. to E. by N. almost all over our Islands, strong generally, and blowing a gale in places.
At the mouth of the Channel, however, it had fallen light and shifted to the Nwd.

WEATHER

Dull, squally and unsettled generally (except at Scilly) and some rain and snow are reported in many places. 0.75 in. of Rainfall is reported at Prawle Point.
Bright Sunshine recorded yesterday was very slight everywhere; the largest amounts reported being 2 hrs. at Llandudno, and 3.5 hrs. at Scilly; none in London.

SEA

Rough at Christiansund, Aberdeen and Donaghadee, rather so off the S. of Ireland; moderate generally elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The main depression noticed last evening is moving Nwds, causing the strong winds in the N. and W.; there is a small secondary system at the mouth of the Channel moving Ewds and likely to cause rain, perhaps snow, and E. by N. to N. by N. winds over our eastern counties.

FORECASTS

For the 24 hours ending at NOON on 7TH FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	E. by N. and SE. by N. winds, strong; perhaps a gale, rain or snow.
1 SCOTLAND EAST	
2 ENGLAND N.E.	SE. by N. to NE. by N. winds, strong; squally, rain or snow, then finer, colder.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	E. by N. to N. by N. breezes, strong then light, rain or snow, then temporarily finer & colder.
6 SCOTLAND WEST	SE. by N. gales, moderating, rain
7 ENGLAND N.W.	
8 ENGLAND S.W.	N. by N. breezes, light, becoming finer and colder.
9 IRELAND NORTH	SE. by N. to SW. by N. winds or gales, moderating, finer, cooler, not settled.
10 IRELAND SOUTH	
WARNINGS	At 7.5 pm yesterday to districts 0, 1, 2 and 3. Hoist North Cone and to districts 5, 6, 7, 8, 9 and 10 Hoist South Cone.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...							
Sumburgh Head							
Stornoway	29.78	34	32	ESE	6	bc	5
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.60	40	38	SE	6	o	3
Belmullet	29.52	44	43	SE	3	bc	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29.69	52	49	W	5	c	4
Hurst Castle ...							
Dungeness ...	29.52	43	43	N	3	o	3
North Foreland							
London (Westminster)							*
Yarmouth ...							
Rochefort ...							*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 29TH JAN. TO 4TH FEB.

SUMMARY WILL BE ISSUED TOMORROW.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 7th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.42	5	N	2	b	29.53	+ .21	12	11	+ 5	N	2	o	*	b	*	12	-20	—
	Hernösand ...	29.53	9	L	0	b	29.63	— .03	7	7	— 7	L	0	o	*	b	*	16	0	—
	Stockholm ...	29.74	23	W	4	o	29.65	— .19	24	23	+ 22	W	2	o	*	o	*	24	1	—
	Wisby	29.88	30	NW	10	b	29.82	— .07	30	27	+ 12	WNW	10	o	*	b	*	30	16	—
	Karlstad ...	29.81	26	WSW	2	b	29.67	— .27	25	27	+ 29	WSW	4	b	*	b	*	*	*	—
	Bodö	29.46	16	E	4	b	29.64	+ .21	10	7	— 6	E	4	b	1	b	*	18	9	—
	Christiansund ...	29.63	31	NNW	9	s	29.65	— .13	28	27	— 2	WSW	3	o	6	s	*	31	27	0.12
	Skudesnaes ...	29.76	37	W	4	o	29.73	— .29	34	32	+ 7	WSW	4	bc	3	c, o	*	37	27	*
	Færder (Christiania Fjord)	29.88	33	WSW	6	o	29.71	— .24	32	30	+ 9	WSW	6	bc	4	o	*	33	23	—
	Skagen (The Scaw)	30.01	30	WSW	3	bc	29.82	— .20	27	26	+ 5	WSW	2	c	0	bc	*	34	21	—
	Fanö	30.04	26	S	5	b	29.76	— .36	23	22	0	L	0	b	*	b	*	30	23	—
BRITISH ISLANDS.	Sumburgh Head	29.82	34	ENE	1	o	29.56	— .38	37	35	+ 5	SE	3	c	4	o	*	38	31	0.14
	Stornoway ...	29.61	37	SE	3	o	29.36	— .49	39	38	+ 4	SE	4	o	4	rsd, o	0.0	39	33	0.12
	Wick	29.69	37	SE	7	o	29.43	— .45	39	37	+ 1	SE	7	o	5	o	*	39	35	0.03
	Nairn	29.67	37	E	1	c	29.37	— .47	37	35	+ 4	ESE	1	c	2	c	*	39	25	—
	Aberdeen ...	29.76	35	SSE	6	ogq	29.46	— .45	38	36	+ 2	SE	6	ogq	6	rsq, ogq	0.0	39	34	0.15
	Leith	29.71	35	SSW	1	o	29.38	— .45	35	34	— 1	E	2	s	*	o	*	37	33	0.02
	Shields	29.78	35	SSE	4	orsp	29.46	— .38	37	37	— 2	SSE	4	r	4	orsp	*	39	32	0.01
	Spurn Head ...	29.77	36	ESE	6	o	29.47	— .35	39	39	+ 2	SSE	5	r	5	orsp	*	39	34	0.05
	York	29.78	34	ESE	1	s	29.43	— .44	37	37	+ 3	E	1	r	*	s, f	c.o	37	31	0.15
	Loughborough ...	29.75	33	SE	2	o	29.45	— .35	37	36	+ 3	ESE	2	ogm	*	os, omd	*	37	33	0.37
	Ardrossan ...	29.67	37	NNE	3	of	29.27	— .47	37	37	+ 3	ENE	3	of	2	of	*	37	32	—
	Malin Head ...	29.47	41	SE	5	om	29.04	— .48	41	41	+ 3	SE	5	cmp	3	om	*	42	37	0.10
	Belmullet ...	29.36	49	SE	6	o	28.98	— .47	47	46	+ 4	SSE	4	c	*	c, o	*	49	42	0.20
	Donaghadee ...	29.59	42	SE	7	o	29.18	— .47	44	42	+ 3	SE	8	c	6	o	*	44	38	0.12
	Liverpool (Bidston)	29.71	35	ESE	3	o	29.35	— .38	37	37	+ 3	ESE	4	bc	?	rs, o	*	37	33	0.09
	Holyhead ...	29.62	42	SE	1	cm	29.24	— .40	47	46	+ 8	S	7	bcw	5	om, cm	*	47	37	0.04
	Parsonstown ...	29.43	46	SE	2	o	29.11	— .41	46	44	+ 3	SE	1	or	*	bc, o	3.5	51	40	0.08
	Valencia ...	29.20	51	SE	7	og.	29.03	— .40	48	46	— 1	S	4	ogq	6	og	0.0	53	44	0.53
	Roche's Point ..	29.40	48	SSE	5	c	29.18	— .37	48	47	+ 1	SW	4	c	5	c, r, l	*	49	46	0.55
	Pembroke (St. Ann's Hd.)	29.59	43	ESE	5	c	29.29	— .33	49	48	+ 6	SW	6	cpq	5	c	4.3	49	40	0.18
	Scilly	29.53	50	SSE	4	o	29.31	— .21	50	50	+ 2	SSW	6	o	5	c, o, fl	7.4	55	48	0.26
	Prawle Point ...	29.66	41	ENE	2	c	29.46	— .11	49	49	+ 3	SSW	4	cp	4	c	*	49	40	0.25
	Jersey (St. Aubin's)	29.67	50	W	4	og	29.57	+ .02	50	49	+ 4	SSE	3	omp	3	or, bc, ogb	*	53	44	0.21
	Hurst Castle ...	29.66	41	ENE	4	d	29.54	— .08	50	48	+ 7	SW	5	pm	3	r	*	50	40	0.53
	Dungeness ...	29.69	41	E	4	r	29.56	— .23	46	46	+ 7	SSW	5	p	4	o, r	*	46	38	0.14
	North Foreland																*			
	London (Brixton) ...	29.69	36	ESE	4	orq	29.52	— .26	46	45	+ 7	S	5	orq	*	og, r, qd	0.0	46	36	0.28
	Oxford	29.69	35	E	1	o	29.46	— .29	45	44	+ 6	S	3	o	*	oprs	*	45	34	0.40
	Cambridge ...	29.73	35	ESE	2	r	29.50	— .34	41	41	+ 4	SSE	2	omq.	*	s, r	0.0	41	33	0.21
	Yarmouth ...	29.78	36	SE	7	orsq	29.54	— .33	40	39	+ 5	SSE	4	odgm	4	c, orsq	*	40	33	0.07
GERMANY & HOLLAND.	Cuxhaven ...	30.10	26	SE	4	b	29.71	— .38	24	24	— 1	SSE	1	o	*	b	*	28	23	—
	Berlin	30.21	24	SE	3	b	29.89	— .23	20	18	— 1	SE	3	o	*	b	*	28	18	—
	Wiesbaden ...	*	*	*	*	*	29.82	— .13	34	33	0	NW	2	o	*	*	*	37	32	0.08
	Munich... ..	29.93	30	E	6	o	29.92	+ .01	39	38	+ 3	SW	5	o	*	o	*	39	28	—
	The Helder ...	29.87	28	ESE	3	o	29.64	— .38	30	29	+ 1	SE	1	m	1	o	*	30	27	—
BELGIUM.	Brussels ...	*	*	*	*	*	29.74	— .17	41	40	+ 9	SSW	2	f	*	r	*	41	31	—
	Cape Gris Nez...	?	39	SE	2	m	?	?	45	42	+ 10	SSW	5	r	4	m	*	46	34	0.04
	Paris	29.72	43	S	2	r	29.80	+ .02	44	43	+ 6	S	3	r	*	r	*	49	38	0.04
	Brest	29.67	50	S	2	o	29.50	— .08	51	50	+ 2	SW	4	bc	4	o	*	54	46	0.24
	Lorient... ...	29.73	49	WSW	3	c	29.63	+ .05	51	50	+ 12	SW	5	c	5	c	*	57	39	0.35
FRANCE &	Rochefort ...	29.80	50	W	3	bc	29.78	+ .16	48	46	— 2	S	4	o	*	bc	*	55	45	0.08
	Belfort	29.86	34	ENE	2	r	29.93	+ .10	41	40	+ 6	W	2	o	*	r	*	41	34	0.16
	Lyons	29.89	43	S	1	r	30.01	+ .13	39	39	+ 4	S	1	f	*	r	*	43	35	0.04
	Nice	29.86	45	E	4	r	30.03	+ .13	?	45	?	L	0	?	4	r	*	48	41	0.51
	Perpignan ...	29.91	54	NW	2	b	30.01	+ .25	39	39	— 7	W	1	o	*	b	*	57	37	—
	Biarritz ...	29.87	53	E	2	o	29.82	+ .07	59	52	+ 7	S	3	o	4	o	*	59	30	—
PENIN-SULA.	Corunna ...																*			
	Lisbon	30.04	59	S	5	o	30.01	— .02	59	57	+ 4	SSW	5	o	*	o	*	61	55	0.04
	Azores (P. Delgada)	29.47	57	SW	5	bc	29.49	+ .17	55	52	— 2	WSW	5	o	7	bc	*	62	50	0.16

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.0 hrs;

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FOR Tuesday, 7th February, 1899.

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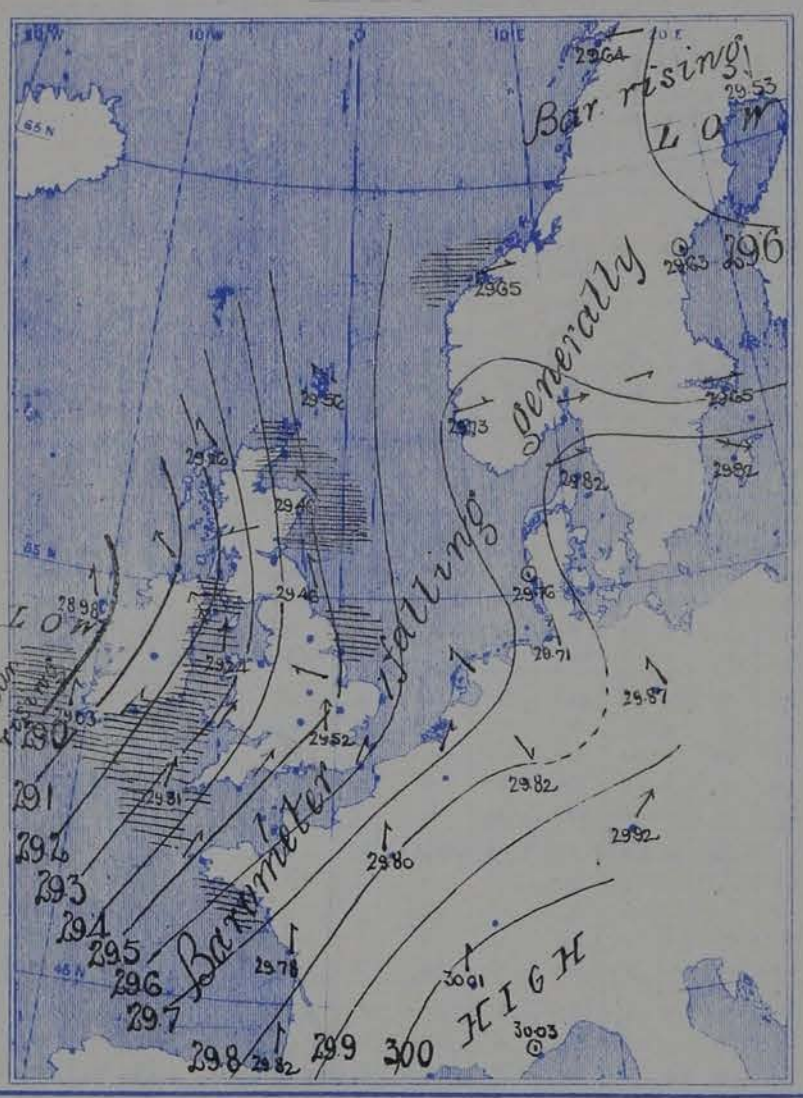

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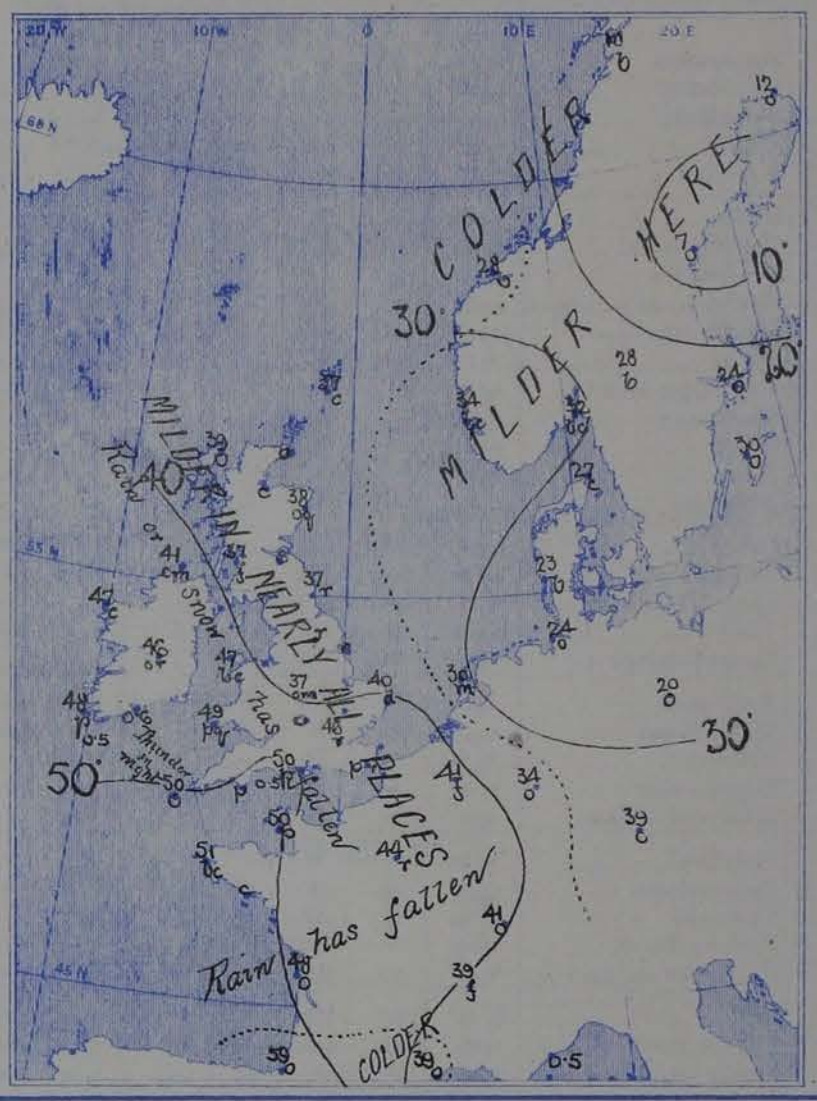
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus ~ 0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF FEBRUARY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 809	37 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0.	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.0 ins. and upwards over the SE.rn parts of France.
Lowest 29.0 ins. and less in a depression lying off the W. of Ireland.
Gradients rather steep over our Islands and the N. of France, moderate or slight elsewhere.
Barometer falling in most places, but rising again at Valencia (Ireland); rising also in the N. of Scandinavia and the central and southern parts of France.

TEMPERATURE

Highest 59° at Biarritz, 51° at Brest and Lorient, and 50° at Scilly, Jersey and Hurst Castle.
Lowest (1) 7° at Hernösand, 10° at Bodö, and 12° at Haparanda; (2) 20° at Munich, lowest in our Islands 35° at Leith.
The maxima registered yesterday were below 40° at all our more N.rn stations, but above 50° on our SW. coasts; at Scilly the thermometer rose to 55°.

WIND

Light to moderate from the S.wd. in France, and fresh or strong from the same quarter on our own S.rn coasts; strong from the SE.wd. over the northern parts of the United Kingdom, W.ly over the southern parts of Scandinavia, with a gale at Wisby; light from the SE.wd. over Holland and N. Germany.

WEATHER

Cloudy or dull over W.rn Europe as a whole, with rain or passing showers in many parts of Ireland, England and the N. of France, and snow at Leith.
Fine in Denmark and the S. of Norway.
Snow or sleet fell yesterday in many parts of the United Kingdom, and rain at our S.rn and the French stations, the largest amounts being 0.6 in. at Roches Pt. and 0.5 in at Valencia (Ireland) and Hurst Castle. Thunder & lightning occurred last night at Scilly, and lightning at Roches Pt.

SEA

Rough or rather so on most parts of our W., N. and NE. coasts, as well as at Christiansund, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the W. of Ireland is moving N.wds., but other disturbances are likely to appear shortly off our W.rn coasts. The milder weather in the S. will probably spread northwards.

FORECASTS

For the 24 hours ending at NOON on 8TH FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE.ly to S.ly gales or strong winds; squally, some rain or sleet.
1 SCOTLAND EAST	
2 ENGLAND N.E.	S.ly winds, fresh or strong, squally, some rain, milder.
3 ENGLAND EAST	Varying S.ly breezes, mild, changeable, some showers, with bright intervals.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	SE.ly winds, strong, squally, some rain, milder.
7 ENGLAND N.W.	S.ly winds, strong, a gale in places; mild, unsettled, some rain.
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	The warning Signals are still flying on all coasts.

Note. The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.06	34	32	SW	4	c	2
Sumburgh Head	29.89	35	35	S	1	o	4
Stornoway	29.64	37	36	SSE	4	o	4
Aberdeen	29.83	35	34	SSE	6	orsgq	6
Shields	29.87	34	34	SSE	4	ors	4
Ardrossan	29.71	37	35	NNE	3	of	2
Malin Head ...	29.51	42	42	SSE	5	o	3
Belmullet	29.45	49	47	SSE	4	c	*
Holyhead	29.66	44	42	SE	1	om	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.38	51	49	SSE	5	og	5
Scilly	29.61	53	51	S	2	c	4
Jersey	29.62	52	50	W	4	bc	3
Hurst Castle ...	29.64	42	41	E	4	r	3
Dungeness ...	29.72	40	40	E	4	o	3
North Foreland							
London (Westminster)	29.74	39	37	SE	5	ogd	*
Yarmouth ...	29.83	37	34	ESE	6	c	5
Rochefort ...	29.78	54	52	NW	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning dull and unsettled over the greater part of W^rn., central and S^rn. Europe, with rain in many places, and snow or sleet over the N^rn. and central parts of Gt. Britain. Fine at some of our SW^rn. stations, and also over Sweden, Denmark, N. Germany, the S. of Norway, and the greater part of Russia. Considerable amounts of rain falling later in the S. of our Islands; thunder and lightning occurring at Scilly, and lightning only at Roche's Pt.

Temperature rises in our Islands, falls in Sweden, Denmark, Germany and the N. of France. Morning reading highest 61° at Algiers, 59° at San. Fernando, and 57° at Nemours and Oran, above 50° at most of the Mediterranean and Spanish coast stations. Lowest −11° F. to −7° over Finland; below 20° over Sweden and Russia generally. Daily maxima below 40° over the N^rn. parts of our Islands, but above 50° on our SW. coasts, and above 55° in the W. and S. of France.

Wind moderate to fresh from the W^rly. or SW^rly. over Spain and the Bay of Biscay; strong from the E^rly. or SE^rly. over our Islands, and light to moderate from the same quarters on the eastern shores of the North Sea. N^rly. or NW^rly. over Sweden, W^rn. Russia and E^rn. Germany; S^rly. or SW^rly. over Austria and the S. of Russia; variable in Italy.

Barometer highest 30.1 ins. and upwards in three anticyclones, one lying over Denmark and N. Germany, another off the S. of Spain, and a third to the N^rly. of Sicily. Lowest 29.0 ins. and less in a depression over the White Sea; 29.5 ins. and less in another disturbance off the W. of Ireland. Small secondary depression moving E^rly. along the Channel during day; new disturbance approaching Ireland in evening.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM 29TH JAN. TO 4TH FEB.

During this week anticyclonic conditions have continued prevalent over the United Kingdom almost constantly, the centre of the system lying off our NW^rn. coasts, but pressure decreasing all all the while, until on Wednesday night it was below 29.6 ins. at almost all our own and the French stations. In the mean time cyclonic disturbances appeared from time to time over Lapland, Sweden and Russia on the one hand and over Portugal and the S. of France on the other. The winds in our Islands were NW^rly. to NE^rly., and temperature became low.

On Friday depressions began to encroach on the W^rn. and SW^rn. parts of our Islands, the anticyclone took up a more easterly position, temperature rose decidedly at our SW^rn. stations, and S^rly. winds and rain were reported very generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday 8th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.77	3	2	0	b	29.80	+ .27	-9	-10	— 21	SW	2	bc	*	b	*	14	?	—
	Hernösand ...	29.87	13	2	0	0	29.98	+ .35	-12	-12	— 19	2	0	b	*	0	*	14	?	—
	Stockholm ...	29.76	17	N	2	0	30.00	+ .35	13	12	— 11	NE	2	b	*	0	*	28	13	—
	Wisby	29.84	29	W	4	b	29.89	+ .07	22	21	— 8	ESE	4	bc	*	b	*	30	22	—
	Karlstad ...	29.75	14	N	2	b	30.02	+ .35	4	4	— 24	NE	2	bc	*	b, s	*	*	*	0.04
	Bodö	29.68	16	? E	4	s	29.73	+ .09	21	19	+ 11	E	4	0	1	s	*	21	7	—
	Christiansund ...	29.78	25	NE	3	b	29.73	+ .08	21	20	— 7	ESE	4	b	4	b	*	28	21	—
	Skudesnaes ...	29.64	35	ESE	4	bc	29.64	— .09	33	30	— 1	SE	6	0	3	b, bc	*	36	27	*
	Færder (Christiania Fjord)	29.70	29	NNE	4	b	29.90	+ .19	22	21	— 10	ENE	4	0	2	b	*	34	16	—
	Skagen (The Scaw)	29.73	28	SE	1	bc	29.86	+ .04	27	27	0	SE	3	0	0	bc	*	30	23	—
	Fanö	29.60	28	S	2	s	29.67	— .09	30	30	+ 7	E	4	0	*	s	*	30	23	0.32
BRITISH ISLANDS.	Sumburgh Head	29.44	37	ESE	4	0	29.28	— .28	39	39	+ 2	ESE	5	0	7	c, o	*	40	34	—
	Stornoway ...	29.16	42	SE	4	0	29.05	— .21	42	41	+ 3	SE	4	0	4	o	0.0	42	36	0.15
	Wick	29.29	40	SE	8	0	29.13	— .30	43	43	+ 4	S	6	fw	7	o	*	43	35	0.25
	Nairn	29.23	40	SE	2	bc	29.12	— .25	40	38	+ 3	SE	2	0	1	bc	*	40	35	0.04
	Aberdeen ...	29.29	40	SE	6	orgq	29.18	— .28	43	42	+ 5	SE	5	orgq	7	orgq	0.0	43	37	0.31
	Leith	29.25	40	2	0	0	29.15	— .23	42	41	+ 7	2	0	0	*	o	*	45	35	0.09
	Shields	29.33	37	S	3	m	29.22	— .24	41	41	+ 4	S	4	0	3	r, om	*	41	37	0.14
	Spurn Head ...	29.41	44	SW	3	0	29.37	— .10	45	44	+ 6	SW	3	b	3	o, r	*	46	39	0.19
	York	29.37	44	S	1	0	29.28	— .15	43	42	+ 6	S	1	b	*	m, o, r	0.0	45	36	0.33
	Loughborough ...	29.43	46	ESE	1	b	29.38	— .07	45	43	+ 8	SSW	3	bc	*	c, b, rg, b	*	52	37	0.26
	Ardrossan ...	29.20	44	ESE	2	0	29.08	— .19	47	46	+ 10	S	4	cp	3	ofp	*	47	35	0.07
	Malin Head ...	29.06	46	S	5	r	28.94	— .10	44	44	+ 3	S	3	cg	3	b, r	*	48	41	0.17
	Belmullet ...	29.05	48	SSW	4	bc	28.95	— .03	46	45	— 1	S	3	0	*	r, bc	*	49	40	0.18
	Donaghadee ...	29.19	47	SSW	5	c	29.14	— .04	45	43	+ 1	SW	6	b	4	c	*	50	43	0.21
	Liverpool (Bidston)	29.37	47	SE	2	0	29.29	— .06	46	44	+ 9	S	3	bc	3	m, op	*	49	37	0.17
	Holyhead ...	29.28	49	SSW	5	cm	29.21	— .03	48	47	+ 1	SSW	6	omp	5	ymp, cm	*	50	45	0.13
	Parsonstown ...	29.15	45	SE	1	b	29.09	— .02	45	43	— 1	SE	1	0	*	p, b	1.8	53	42	0.13
	Valencia ...	29.06	50	SSE	3	0	28.91	— .12	48	45	0	SE	5	0	5	c, o	3.5	53	45	0.37
	Roche's Point ..	29.17	49	SSW	5	r	29.04	— .12	47	47	— 1	S	4	r	5	c, rlq	*	52	45	0.52
	Pembroke (St. Ann's Hd.)	29.37	49	SSW	6	bc	29.23	— .06	49	48	0	SSW	6	rgm	6	bc	3.3	50	46	0.43
	Scilly	29.31	52	S	6	om	29.17	— .14	52	50	+ 2	S	7	r	6	c, om, bl	5.7	56	50	0.16
	Prawle Point ...	29.47	50	SSW	3	0	29.39	— .07	50	50	+ 1	SSW	6	r	5	c, p	*	53	48	0.03
	Jersey (St. Aubin's)	29.60	52	S	3	omp	29.54	— .03	52	51	+ 2	SSE	3	orm	3	c, omp, b	*	56	48	0.26
	Hurst Castle ...	29.52	51	SW	4	cm	29.49	— .05	50	49	0	SSW	4	om	3	cm	*	52	48	0.09
	Dungeness ...	29.54	48	SW	4	bc	29.54	— .02	48	48	+ 2	SSW	4	c	4	c, bc	*	52	45	0.05
	North Foreland																*			
	London (Brixton) ...	29.53	50	WSW	2	b	29.50	— .02	50	48	+ 4	S	4	0	*	bc, ogr	2.2	56	45	0.14
	Oxford	29.49	48	SSW	3	0	29.45	— .01	48	46	+ 3	S	3	0	*	o, c	*	56	45	0.03
	Cambridge ...	29.50	45	SW	2	b	29.46	— .04	47	46	+ 6	SSW	3	b	*	h, b	2.6	56	40	0.25
	Yarmouth ...	29.47	47	SSW	3	bcl	29.49	— .05	47	46	+ 7	SSW	4	b	4	c, bcl	*	49	39	0.12
GERMANY & HOLLAND.	Cuxhaven ...	29.61	34	S	1	r	29.64	— .07	39	38	+ 15	SW	1	f	*	r	*	39	24	0.16
	Berlin	?	32	SE	2	r	29.75	— .12	39	38	+ 19	SW	2	0	*	r	*	39	20	0.08
	Wiesbaden ...	*	*	*	*	*	29.86	+ .04	38	38	+ 4	NE	2	0	*	*	*	39	34	0.20
	Munich... ..	29.91	43	SW	6	r	29.97	+ .05	40	40	+ 1	SW	5	r	*	r	*	46	37	0.55
	The Helder ...	29.51	43	SW	3	b	29.56	— .08	45	44	+ 15	SW	3	r	2	b	*	45	30	0.28
BELGIUM.	Brussels ...	*	*	*	*	*	29.70	— .04	48	46	+ 7	SSW	5	bc	*	o	*	48	40	0.12
	Cape Gris Nez...	?	48	SW	5	c	?	?	48	46	+ 3	SW	5	c	5	c	*	52	43	0.08
	Paris	29.76	50	SSW	3	0	29.78	— .02	48	46	+ 4	SSW	3	bc	*	o	*	51	44	0.08
	Brest	29.52	53	SW	4	0	29.45	— .05	51	50	0	S	4	r	5	o	*	54	46	0.16
	Lorient... ...	29.63	51	SSW	5	c	29.57	— .06	53	50	+ 2	SSW	5	r	6	c	*	57	41	0.08
FRANCE &	Rochefort ...	29.77	51	S	3	0	29.76	— .02	49	47	+ 1	S	3	0	*	o	*	54	45	0.16
	Belfort	29.89	45	W	1	r	29.94	+ .01	46	45	+ 5	SW	3	r	*	r	*	50	41	0.39
	Lyons	29.97	49	SSW	1	r	30.00	— .01	46	45	+ 7	SSE	1	c	*	r	*	52	39	0.20
	Nice	30.09	46	2	0	r	30.09	+ .06	44	43	?	E	1	c	2	r	*	48	43	0.08
	Perpignan ...	30.01	53	NE	2	0	30.03	+ .02	50	50	+ 11	2	0	0	*	0	*	55	39	—
	Biarritz ...	29.82	64	SSW	4	0	29.78	— .04	60	53	+ 1	SSW	5	0	5	0	*	64	?	—
PENIN-SULA.	Corunna																*			
	Lisbon	30.00	58	SSW	5	0	29.97	— .04	59	57	0	S	5	0	*	o	*	63	57	0.01
	Azores (P. Delgada)	29.34	59	WSW	5	c	29.34	— .15	58	54	+ 3	WSW	6	c	7	c	*	61	54	0.20

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

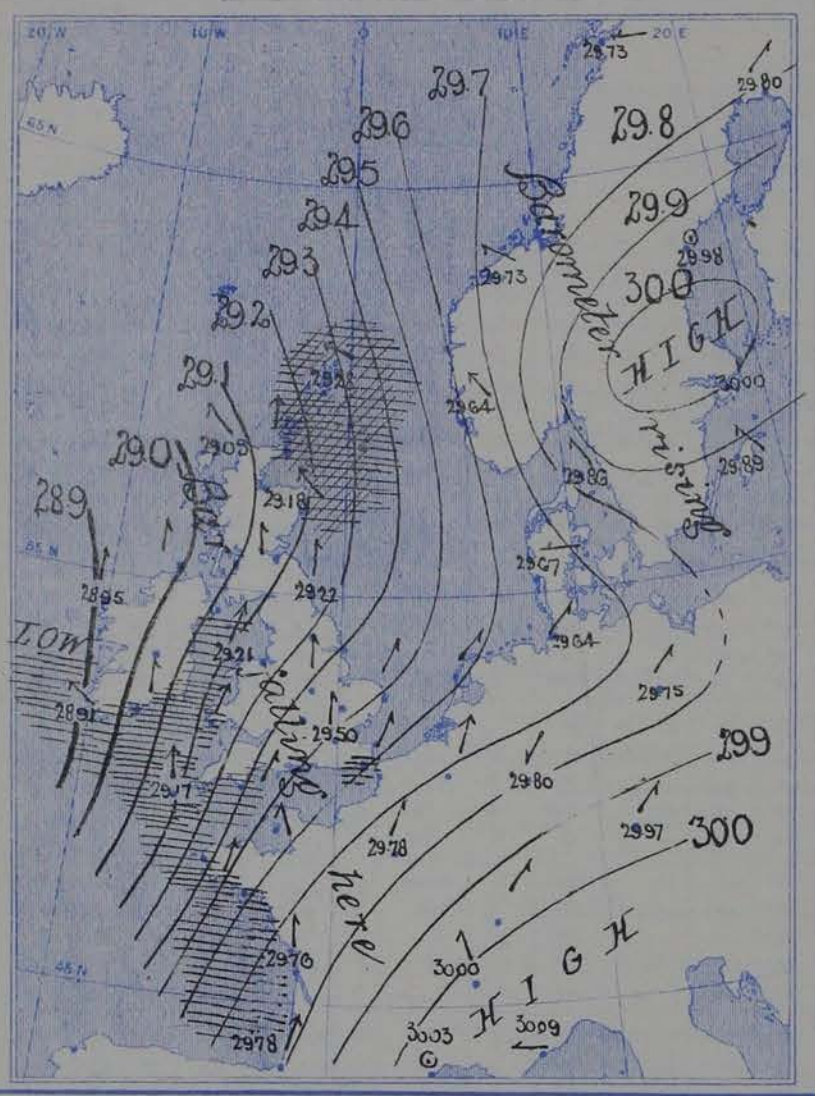
Bright Sunshine yesterday Southport 0.1 *hrs.*

WEATHER CHARTS

FOR Wednesday, 8th February, 1899.

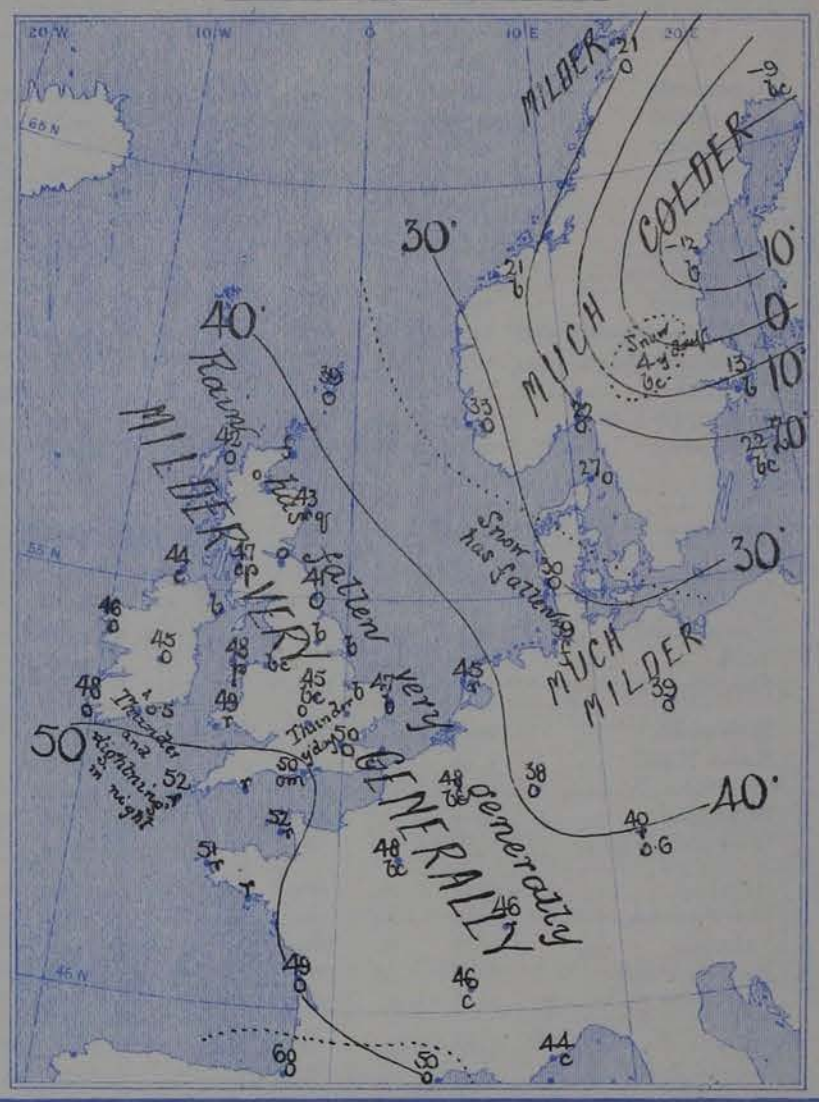
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 · 4	32 · 5	64	1891	0	1895	1 · 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.0 ins. and upwards over central Sweden and also over the SE^rn. parts of France.
Lowest 28.9 ins. and less in a depression off the W. of Ireland.
Gradients rather steep over our Islands and their immediate neighbourhood, but moderate or slight elsewhere.
Barometer falling in most parts of the United Kingdom and also in the W. of France; rising elsewhere.

TEMPERATURE

Highest 60° at Biarritz, 53° at Lorient, 52° at Scilly and Jersey, 51° at Brest, and 50° at Prawle Point, Hurst Castle, London and Perpignan.
Lowest −12°F. at Hernösand, −9° at Haparanda, +4° at Karlstad, and 13° at Stockholm; lowest in our Islands 39° at Sumburgh Head.
During yesterday the thermometer rose to between 50° and 55° over the central and S^rn. parts of the United Kingdom generally, and to 56° at Scilly, Jersey, London, Oxford and Cambridge.

WIND

S^ly over the greater part of our Islands and France, but SE^ly at Valencia (Ireland) and also in the N. of Scotland; strong in force on many parts of our western coasts.
SW^ly over Germany and the Netherlands; E^ly or SE^ly over Denmark and the greater part of Scandinavia; calm or SW^ly over the Gulf of Bothnia.

WEATHER

Cloudy or dull over W^rn. Europe as a whole, with rain in the SW. of our Islands and the NW. of France as well as at some of the Scotch stations, and at the Helder.
Fine in the E. of England and also in Sweden.
Since yesterday morning rain has fallen in nearly all parts of W^rn. Europe, the largest amounts being 0.6 in. at Munich, and 0.5 in. at Roche's Pt. Thunder and lightning have occurred at Scilly, thunder only in London, and lightning at Roche's Pt., Yarmouth & Killington.

SEA

High off the NE. of Scotland, and rough or rather so on all the W. coasts of our Islands & France.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Cyclonic systems are still arriving in quick succession off our W^rn. coasts, and the present tendency is for a general increase in the barometric gradients. S^ly gales and mild rainy weather are probable in most districts.

FORECASTS

For the 24 hours ending at NOON on 9TH FEBRUARY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
↓ 0 SCOTLAND NORTH ↓ 1 SCOTLAND EAST	SE^ly winds, increasing to a gale; dull, squally, some rain.	↓ 6 SCOTLAND WEST ↓ 7 ENGLAND N.W.	S^ly and SE^ly winds increasing in force; squally, rain at times.
2 ENGLAND N.E. ↓ 3 ENGLAND EAST ↓ 4 MIDLAND COUNTIES	S^ly winds, freshening considerably; squally, rain at times.	↓ 8 ENGLAND S.W. ↓ 9 IRELAND NORTH ↓ 10 IRELAND SOUTH	S^ly gales and strong winds; squally, rain at times.
↓ 5 ENGLAND SOUTH	S^ly winds, strong to a gale on coast; squally, rain at times.	WARNINGS	At 7.30 pm yesterday to districts 3, 5 and 7 to 10, and at 10.30 am today to districts 0, 1 and 6. ~~Hoist South Cone.~~

Note.—The **South Cone**, *point downwards* (↓), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.68	35	34	S	4	b	3
Sumburgh Head	29.49	37	34	SE	3	c	5
Stornoway	29.18	41	40	SSE	5	o	5
Aberdeen	29.34	38	37	SE	7	ortgv	7
Shields	29.33	39	39	S	3	o	4
Ardrossan	29.19	41	41	ESE	2	ofp	2
Malin Head ...	29.06	48	46	S	5	b	3
Belmullet	29.01	46	45	SSW	5	r	*
Holyhead	29.27	48	47	SSW	6	ogmp	4
Valencia	29.07	53	49	S	5	c	6
Scilly	29.37	55	52	SSW	6	c	5
Jersey	29.59	56	53	SSW	4	c	3
Hurst Castle ...	29.52	51	49	SW	4	cm	3
Dungeness ...	29.54	51	46	WSW	4	c	4
North Foreland							
London (Westminster)	29.48	55	53	SW	3	cf	*
Yarmouth ...	29.46	48	47	SSW	3	c	4
Rochefort ...	29.77	54	52	S	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain or passing showers in many parts of Ireland, England and the N. of France and with snow at Leith. Rain falling also at Cagliari and snow at Helsingfors and Hermanstadt. Sky clearing later in the E. and SE. of England, but rain falling over Wn. Europe generally during the ensuing 24 hours. Thunder and lightning occurring over the Sn. parts of the United Kingdom.

Temperature risen in all but the En. and central countries. Morning readings highest 64° at Bilbao, and 59° at Biarritz, Lisbon and Algiers; touching 50° at some of the English Channel stations. Lowest −21° F. at Archangel, −1° at Uleaborg and Moscow, and +1° at St. Petersburg, below the freezing point over Nn., En. and central Europe generally. Rising during day to between 50° and 56° over the central and southern parts of our Islands, exceeding 55° also at several stations in the W. and S. of France, and reaching 64° at Biarritz.

Wind moderate to strong from the Snd. or SWd. over the Spanish peninsula, the W. of France and the southern parts of our Islands, and from the SEnd. on all our more northern and eastern coasts, with a gale at Donaghadee. Wly. over the southern parts of Scandinavia, and northern and central Russia, with a gale at Wesby; NWly. in the south of Russia. Light to moderate from the SEnd. over Germany and Austria; Nly. or NWly. in Italy. No important change occurring over western Europe during day.

Barometer highest 30.3 ins. and upwards over the extreme SW. of Russia, 30.1 ins. and upwards in an anticyclone covering the whole of SEn. Europe, and also in another system over Algeria and the Sn. parts of Spain. Lowest 29.0 ins. and less in a depression lying off the W. of Ireland, 29.3 ins. and less in another disturbance over the extreme N. of Russia. New depressions approaching our own extreme SW. coasts later, and barometer falling in most parts of the United Kingdom.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on THURSDAY, FEBRUARY 9TH 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.73	-11	Z	0	b	29.97	+.17	10	9	+19	S	4	b	*	b	*	10	-18	—
	Hernösand ...	30.10	9	S	2	b	29.93	-.05	20	19	+32	S	6	o	*	b	*	20	-12	—
	Stockholm ...	30.14	14	E	2	b	29.89	-.11	27	26	+14	S	6	s	*	b	*	27	10	—
	Wisby	30.13	21	SSE	4	b	29.85	-.04	28	27	+6	S	8	s	*	b	*	28	16	—
	Karlstad ...	30.05	13	ENE	2	b	29.58	-.44	26	26	+22	ENE	6	s	*	b	*	*	*	0.08
	Bodö	29.49	23	ESE	2	b	29.41	-.32	20	17	-1	E	4	b	1	b	*	28	19	—
	Christiansund ...	29.58	27	ESE	2	b	29.23	-.50	33	30	+12	SE	3	bc	4	b	*	33	21	—
	Skudesnaes ...	29.32	32	ESE	8	s	29.14	-.44	34	34	+4	ESE	8	o	4	c. s	*	37	28	*
	Færder (Christiania Fjord)	29.93	24	E	3	o	29.47	-.43	29	29	+7	ENE	4	s	3	o	*	29	19	—
	Skagen (The Scaw)	29.79	30	SE	4	s	29.34	-.52	34	34	+7	S	6	†	1	s	*	34	27	0.12
	Fanö	29.58	36	S	4	†	29.34	-.30	41	41	+11	WSW	4	o†	*	†	*	41	30	0.59
	Sumburgh Head	29.10	40	ESE	6	†	28.81	-.44	41	41	+2	Z	0	o	7	o. †	*	42	39	0.20
	Stornoway ...	28.90	45	S	2	b	28.84	-.18	43	42	+1	WSW	3	o	3	o. b	0.0	46	40	0.10
	Wick	29.07	42	S	5	o	28.91	-.22	41	39	-2	W	2	bc	4	o	*	44	40	0.05
	Nairn	28.98	43	Z	0	o	28.93	-.19	40	39	0	W	1	c	1	o	*	50	37	0.05
	Aberdeen ...	29.07	43	SSE	5	o g q †	29.00	-.18	40	39	-3	SW	3	bc	5	c o g q †	0.8	45	39	0.56
BRITISH ISLANDS.	Leith	28.97	45	Z	0	o	29.07	-.08	42	41	0	W	3	bc	*	o	*	50	40	0.12
	Shields	29.07	46	SSE	3	o f	29.12	-.10	48	46	+7	SW	4	c	2	c m t b †	*	48	41	0.12
	Spurn Head ...	29.19	48	S	5	o	29.32	-.05	47	45	+2	SSW	5	c	4	c. t. [illegible]	*	50	44	0.03
	York	29.13	49	S	2	o f	29.28	0.0	50	?49	+7	SW	3	o	*	o f l	0.2	51	41	0.02
	Loughborough ...	29.21	52	SSW	4	o	29.37	-.01	48	45	+3	SW	3	o	*	c p q b. o	*	53	45	0.13
	Ardrossan ...	28.92	46	SE	4	o f	29.08	0.0	45	44	-2	SSW	5	c	4	o f	*	47	41	0.38
	Malin Head ...	28.76	47	S	4	o q	28.94	+.03	42	42	-2	S	4	bc	3	c. o g	*	48	41	?—
	Belmullet ...	28.79	46	SSW	4	bc	29.02	+.07	47	46	+1	SSW	3	o	*	t. u. bc	*	49	43	0.13
	Donaghadee ...	28.88	48	S	5	o	29.18	-.01	45	44	0	SW	4	c	2	o	*	50	41	0.42
	Liverpool (Bidston)	29.08	48	SSW	2	f	29.27	-.02	50	47	+4	SW	7	o	5	m f	*	50	43	0.06
	Holyhead ...	29.00	49	SW	6	c f	29.22	+.01	50	48	+2	SW	7	o	6	t g m. c f l	*	50	46	0.15
	Parsonstown ...	28.87	45	S	1	o	29.12	+.03	48	47	+3	S	1	o	*	o †	0.2	51	42	0.43
	Valencia ...	28.83	48	S	4	o f	29.02	+.11	50	48	+2	SSE	5	om	5	o f	0.5	52	44	0.74
	Roche's Point ..	29.17	49	SSW	5	† q	29.13	+.09	50	50	+3	S	6	†	5	q †	*	51	46	0.35
	Pembroke (St. Ann's Hd.)	29.06	50	SW	7	o	29.33	+.10	49	48	0	SW	6	o g m	6	o	0.1	50	46	0.13
	Scilly	29.12	52	SSW	6	c	29.29	+.12	50	50	-2	SSE	5	†	6	c m f. c. l	1.8	56	49	0.27
	Prawle Point ...	29.26	51	SSW	6	†	29.45	+.06	49	49	-1	SSE	6	† m	5	o f. c f	*	52	48	0.15
	Jersey (St. Aubin's)	29.46	54	S	5	o g	29.60	+.06	53	52	+1	SSE	5	c	4	o g f. †	*	56	50	0.37
	Hurst Castle ...	29.33	53	SSW	7	o f q	29.54	+.05	51	49	+1	SSW	4	c m	3	o d. o f q	*	53	42	0.34
	Dungeness ...	29.45	51	S	5	o f	29.58	+.04	49	49	+1	SW	4	c	4	† o f	*	51	47	0.41
	North Foreland																*			
	London (Brixton) ...	29.33	52	S	5	o † q	29.53	+.03	49	46	-1	SW	2	b	*	o q †. b	0.0	54	48	0.31
	Oxford	29.29	53	SSW	5	o	29.47	+.02	48	46	0	S	4	o	*	o † q	*	54	47	0.18
	Cambridge ...	29.30	53	SSW	6	o q †	29.47	+.01	49	46	+2	SW	4	o	*	o q †	0.0	54	45	0.09
	Yarmouth ...	29.38	50	S	5	†	29.48	-.01	46	45	-1	S	4	bc	4	o † g	*	52	45	0.12
GERMANY & HOLLAND.	Cuxhaven ...	29.69	43	SSW	2	o	29.48	-.16	47	47	+8	SW	4	†	*	f. o. †	*	47	39	0.51
	Berlin	29.88	41	S	4	o	29.71	-.04	43	42	+4	S	3	†	*	o	*	43	39	0.08
	Wiesbaden ...	*	*	*	*	*	29.83	-.03	40	40	+2	?NE	2	c	*	*	*	43	39	0.04
	Munich... ..	30.03	39	SW	3	b	30.00	+.03	37	36	-3	SW	4	c	*	b	*	50	34	0.04
	The Helder ...	29.50	50	S	3	†	29.54	-.02	45	44	0	SW	4	bc	2	†	*	54	45	0.39
BELGIUM.	Brussels ...	*	*	*	*	*	29.71	+.01	53	50	+5	SW	5	o	*	c	*	56	48	0.08
	Cape Gris Nez...	?	52	SSW	6	†	?	?	50	48	+2	WSW	5	o	5	†	*	54	45	0.47
	Paris	29.71	57	SSW	4	o	29.79	+.01	53	50	+5	SSW	4	bc	*	o	*	59	48	—
	Brest	29.35	53	S	5	†	29.49	+.04	52	52	+1	SSE	5	o	5	†	*	54	48	0.32
	Lorient... ...	29.49	53	SSW	6	†	29.58	+.01	52	51	-1	SSE	5	c	6	†	*	57	50	0.28
FRANCE &	Rochefort ...	29.65	54	SSW	5	o	29.76	0.0	51	48	+2	SSE	4	o	*	c. o	*	55	45	—
	Belfort	29.91	54	W	1	c	29.95	+.01	51	46	+5	W	4	o	*	c	*	59	45	—
	Lyons	29.97	54	S	3	o	30.04	+.04	54	50	+8	SW	2	ov	*	o	*	60	52	—
	Nice	30.16	50	Z	0	c	30.26	+.17	46	45	+2	E	2	bc	3	c	*	55	44	—
	Perpignan ...	30.04	57	Z	0	o	30.07	+.04	50	50	0	W	1	o	*	o	*	63	48	—
	Biarritz ...	29.74	67	S	6	c	29.86	+.08	66	53	+6	S	6	bc	5	c	*	68	60	—
PENINSULA.	Corunna ...																*			
	Lisbon	29.92	59	S	4	o	29.85	-.12	62	54	+3	S	5	bc	*	o	*	62	57	—
	Azores (P. Delgada)	28.95	54	WSW	5	c	29.14	-.20	49	48	-9	W	4	c	6	b. c	*	61	45	0.20

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

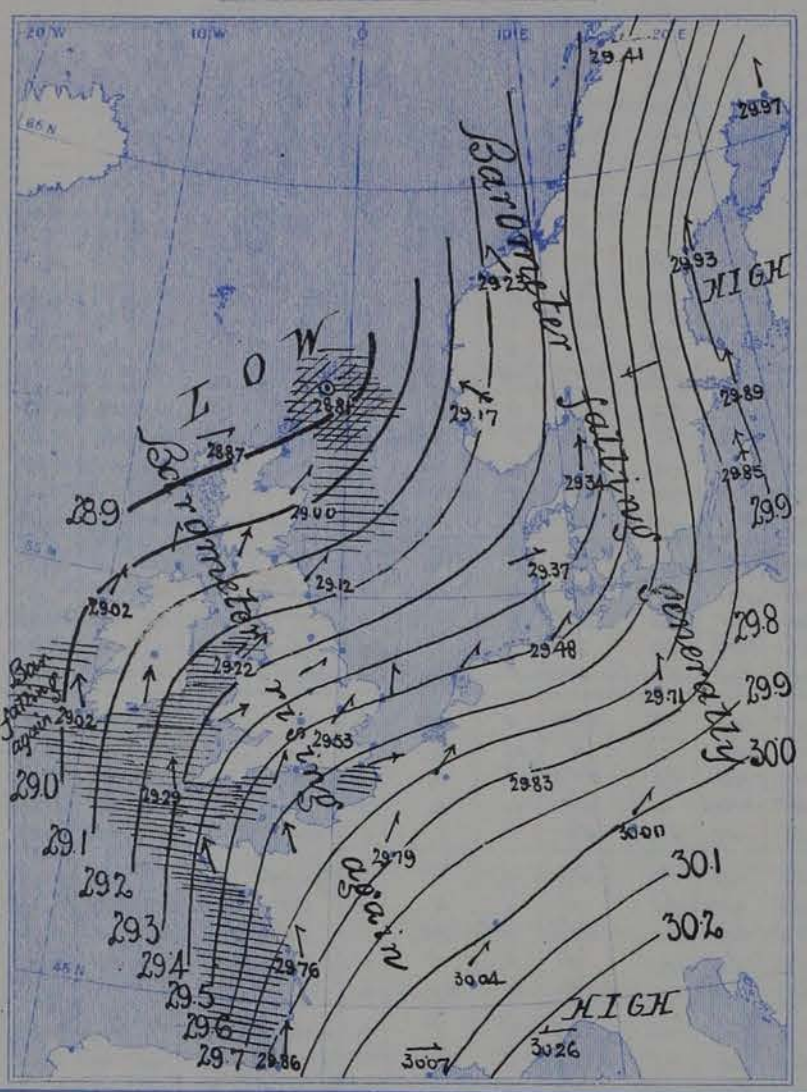
Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR Thursday, 9th February, 1899.

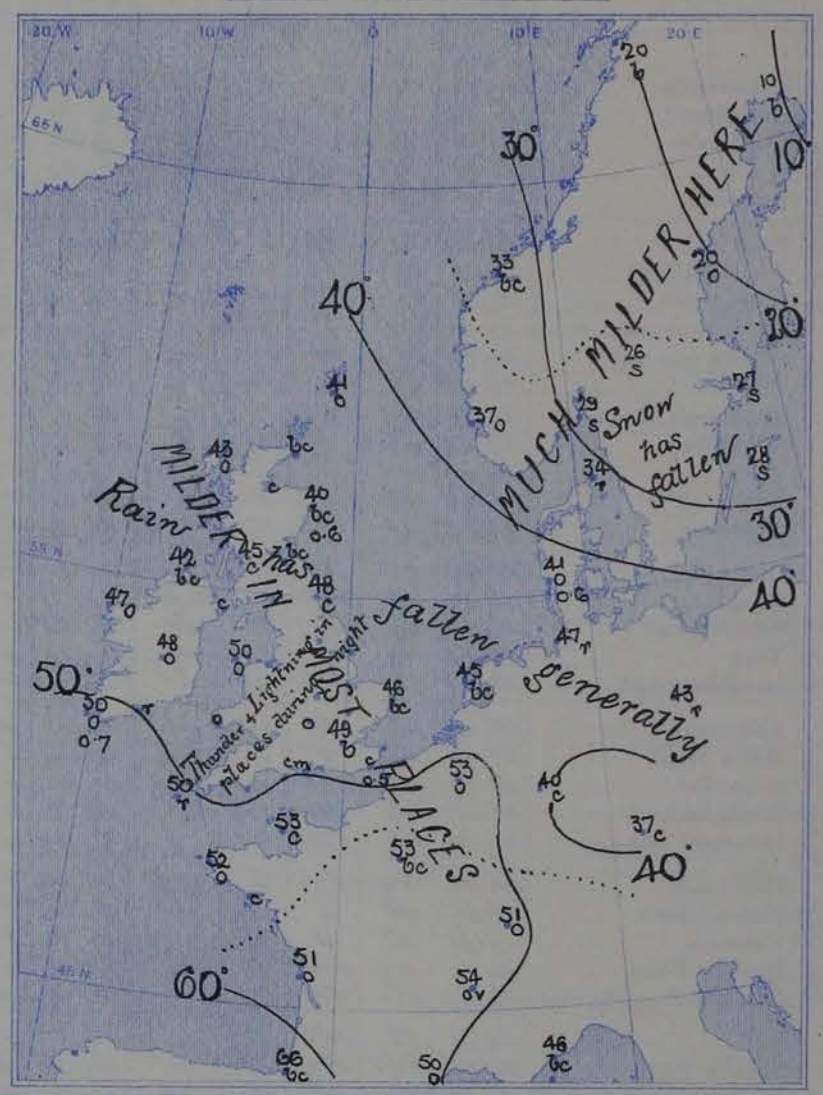
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 · 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards over the Riviera; 29.9 ins. and upwards over the Gulf of Bothnia.
Lowest 28.9 ins. and less in a depression off the N. of Scotland; 29.0 ins. and less in another disturbance approaching the W. of Ireland.
Gradients rather steep generally, but slight at present over Scotland.
Barometer rising in most parts of our Islands and France, but falling again at Valencia (Ireland); falling in Scandinavia, Denmark and Germany.

TEMPERATURE

Highest 66° at Biarritz, 62° at Lisbon, 54° at Lyons, and 53° at Jersey, Brussels and Paris.
Lowest 10° at Haparanda, 20° at Bodö and Hernösand, and 26° at Karlstad; lowest in our Islands 40° at Nairn and Aberdeen.
During yesterday the thermometer rose to 50° and upwards in many parts of the United Kingdom, and to 56° at Scilly and Jersey.

WIND

Strong from the S.wd. or SE.wd. over the Bay of Biscay and our southwest coasts; moderate to fresh from the SW.wd. over the northern and eastern parts of our Islands, and also over Denmark, Germany, the Netherlands and central France.
S.ly in Sweden, and SE.ly or E.ly in Norway, with a gale at Wisby and Skudesnaes.

WEATHER

Fair or fine in the N. and E. of our Islands, as well as in Holland, the W. of Norway and the extreme south of France.
Dull elsewhere, with rain on our own SW. coasts, and also in Denmark and N. Germany; snow falling in the S. of Scandinavia.
Rain fell yesterday over NW.rn Europe generally, the largest amounts being 0.7 in. at Valencia (Ireland), and 0.6 in. at Aberdeen. Thunder and lightning occurred at Shields, and lightning only in many other parts of England.

SEA

High at Sumburgh Hd., and rough or rather so on nearly all parts of our own and the French coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression noticed yesterday in the W. is moving away to the northward, but a fresh disturbance is approaching the Irish coasts. The wind is again likely to increase from the southward over nearly the whole Kingdom, with squally, rainy weather.

FORECASTS

For the 24 hours ending at NOON on 10TH FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Wind backing to the S.wd. or SE.wd. and increasing in force; fair at first then squally and rainy.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Same as No. 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	S.ly winds, increasing in force; dull, squally, rain at times.
6 SCOTLAND WEST	S.ly to SW.ly gales and strong winds; squally, rain at times.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	

WARNINGS

The SOUTH CONE is still flying in all districts excepting No. 2.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.63	33	32	ESE	6	c	4
Sumburgh Head	29.22	40	39	ESE	5	o	7
Stornoway	28.95	46	45	SSE	4	o	4
Aberdeen	29.13	45	44	S	3	c	6
Shields	29.22	47	45	SSW	3	cm	3
Ardrossan	29.03	47	46	SE	3	of	3
Malin Head ...	28.88	47	46	S	4	c	3
Belmullet	28.80	48	47	SE	5	tu	*
Holyhead	29.06	48	47	S	5	tgm	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	28.80	58	48	S	4	of	6
Scilly	29.10	55	53	S	7	cmf	7
Jersey	29.48	54	52	S	5	of	4
Hurst Castle ...	29.34	53	50	SSW	7	od	5
Dungeness ...	29.48	49	49	S	5	f	4
North Foreland							
London (Westminster)	29.39	53	51	SSW	7	ogf	*
Yarmouth ...	29.45	48	47	S	4	ofg	4
Rochefort ...	29.78	55	51	SSW	4	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental information not received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on FRIDAY FEBRUARY 10TH. 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.90	2	SW	4	0	29.76	-.21	10	10	0	S	4	S	*	0	*	14	-13	0.04
	Hernösand ...	29.56	22	S	8	S	29.48	-.45	28	28	+8	Z	0	f	*	S	*	28	-6	0.16
	Stockholm ...	29.50	34	Z	0	f	29.49	-.40	37	36	+10	SW	2	f	*	f	*	37	12	0.47
	Wisby	29.62	35	S	4	f	29.52	-.38	39	39	+11	S	4	f	*	f	*	39	18	0.47
	Karlstad ...	29.40	34	SW	2	S	29.41	-.17	34	34	+8	Z	0	f	*	0 f	*	*	*	0.28
	Bodö	29.26	24	E	6	b	29.24	-.17	24	22	+4	E	6	S	2	b	*	25	14	—
	Christiansund ...	29.08	39	SW	4	f	29.27	+.04	39	38	+6	WSW	3	0	4	f	*	39	33	—
	Skudesnaes ...	29.27	41	WSW	4	bc	29.12	-.05	46	45	+9	S	6	f	4	f. bc	*	46	36	*
	Færder (Christiania Fjord)	29.40	27	NNW	2	0	29.33	-.14	29	28	0	N	4	m	3	0	*	29	25	0.08
	Skagen (The Scaw)	29.45	39	SW	2	m	29.35	+.01	39	39	+5	SW	2	m	0	m	*	41	32	0.32
	Fanö	29.50	43	WSW	4	0	29.47	+.10	45	43	+4	WSW	4	0	*	0	*	45	39	0.16
BRITISH ISLANDS.	Sumburgh Head	29.01	44	WSW	2	0	29.03	+.22	44	44	+3	NE	2	f	5	0	*	45	39	0.08
	Stornoway ...	28.94	45	SSW	3	0	29.04	+.17	37	36	-6	WNW	2	c	2	c. 0	2.6	49	35	0.05
	Wick	29.04	44	W	2	bc	29.05	+.14	42	42	+1	W	2	0	3	bc. f	*	48	39	0.22
	Nairn	29.01	42	Z	0	0	29.06	+.13	38	37	-2	W	1	0	1	0	*	50	37	0.28
	Aberdeen ...	29.07	44	S	2	og†	29.10	+.10	42	41	+2	SW	3	og	4	cq. ogtq	4.7	49	39	0.12
	Leith	29.01	47	S	1	0	29.14	+.07	46	44	+4	WSW	2	c	*	0	*	52	41	0.13
	Shields	29.08	45	ESE	3	0	29.19	+.07	48	45	0	SSW	3	c	3	om. f. 0	*	56	43	0.06
	Spurn Head ...	29.24	52	SSW	6	c	29.35	+.03	48	47	+1	S	3	0	3	c	*	54	42	0.14
	York	29.22	52	S	2	f	29.29	+.01	52	51	+4	S	1	c	*	0. f	0.0	57	46	0.27
	Loughborough ...	29.29	56	SW	4	0	29.37	0.0	55	49	+7	SSW	5	cq	*	ofq. cq	*	59	48	0.08
	Ardrossan ...	28.92	45	SSE	3	fm	29.12	+.04	45	45	0	SSE	2	0	2	om. fm	*	48	44	0.04
	Malin Head ...	28.79	43	ESE	5	f	29.04	+.07	43	43	+1	SE	3	f	1	0. f	*	48	42	0.28
	Belmullet ...	28.78	42	NE	4	f	28.96	-.06	43	43	-4	E	4	f	*	f	*	49	41	0.63
	Donaghadee ...	28.86	50	SSW	6	0	29.12	-.01	46	46	+1	SSE	4	f	2	0	*	50	43	0.31
	Liverpool (Bidston)	29.12	54	SSW	4	c	29.25	-.02	53	52	+5	S	2	c	3	f. c	*	57	45	0.13
	Holyhead ...	29.05	52	S	8	qdm	29.17	-.05	50	50	0	SSW	7	tqm	6	tqgm. dm	*	52	45	0.57
	Parsonstown ...	28.78	52	SW	3	0	29.02	-.10	48	48	0	S	1	c	*	tq. 0	0.0	55	43	0.24
	Valencia ...	28.92	49	SW	7	og	28.92	-.10	50	48	0	S	6	omg	6	f. omg	0.0	55	44	0.81
	Roche's Point ..	28.94	51	SW	8	c	29.05	-.08	51	50	+1	SW	5	0	5	f. c. f	*	52	45	0.45
	Pembroke (St. Ann's Hd.)	29.13	53	SSW	7	c	29.22	-.11	51	50	+2	SW	7	0	6	c	0.0	53	45	0.63
	Scilly	29.22	54	S	9	m	29.27	-.02	52	50	+2	SSW	6	f	6	omf. m	0.0	57	49	0.37
	Prawle Point ...	29.39	53	SSW	7	c	29.44	-.01	53	49	+4	SW	3	c	4	fq. c	*	56	48	0.15
	Jersey (St. Aubin's)	29.53	51	S	4	cg	29.57	-.03	53	49	+2	SE	5	c	4	c. mg. f	*	58	49	—
	Hurst Castle ...	29.48	56	SSW	6	oqf	29.50	-.04	54	50	+3	SSW	4	om	3	omf oqf	*	58	46	0.04
	Dungeness ...	29.53	52	SSW	4	c	29.58	0.0	51	50	+2	SSW	4	c	4	f. c	*	54	48	0.02
	North Foreland																*			
	London (Brixton) ...	29.48	58	SW	5	0	29.53	0.0	56	49	+7	SW	5	c	*	oqf c. oq	0.0	58	49	0.12
	Oxford	29.29	57	SSW	7	0	29.46	-.01	54	50	+6	S	4	c	*	f. 0	*	59	47	0.12
	Cambridge ...	29.39	57	SW	7	oq	29.48	+.01	54	49	+5	SSW	5	0	*	foq	0.1	59	47	0.10
	Yarmouth ...	29.43	51	SSW	4	bc	29.20	+.02	52	47	+6	SSW	4	b	4	of. bc	*	52	45	0.10
GERMANY & HOLLAND.	Cuxhaven ...	29.66	50	SW	5	f	29.64	+.16	51	51	+4	SSW	5	oqf	*	fq	*	52	47	0.20
	Berlin	29.85	46	WSW	3	c	29.83	+.12	48	46	+5	WSW	4	bc	*	c	*	54	43	0.20
	Wiesbaden ...	*	*	*	*	*	?30.03	?+.20	40	39	0	SW	2	0	*	*	*	57	37	—
	Munich	30.12	48	Z	0	b	30.18	+.18	42	39	+5	SSW	3	b	*	b	*	59	37	—
	The Helder ...	29.53	56	SSW	6	0	29.59	+.05	50	45	+5	SSW	5	bc	3	0	*	56	45	0.24
BELGIUM.	Brussels ..	*	*	*	*	*	29.77	+.06	56	46	+3	S	3	0	*	0	*	59	52	—
	Cape Gris Nez ...	?	52	SW	6	0	?	?	52	47	+2	SW	6	c	6	0	*	57	46	—
	Paris	29.82	60	SSW	4	bc	29.84	+.05	52	44	-1	S	2	bc	*	bc	*	64	50	—
	Brest	29.49	55	S	4	0	29.45	-.04	55	53	+3	S	4	0	5	0	*	57	48	—
	Lorient																*			
FRANCE &	Rochefort ...	29.76	55	S	5	0	29.79	+.03	50	48	-1	S	5	bc	*	0	*	55	48	—
	Belfort	29.98	57	W	3	bc	30.05	+.10	47	43	-4	Z	0	0	*	bc	*	62	45	—
	Lyons	30.06	58	WSW	3	0	30.09	+.05	57	45	+3	S	4	b	*	0	*	61	53	—
	Nice ...																*			
	Perpignan ...	30.13	52	Z	0	0	30.19	+.12	48	48	-2	NE	1	f	*	0	*	59	43	—
	Biarritz ...	29.84	72	S	5	c	29.86	0.0	66	53	0	SSE	3	b	4	c	*	73	64	—
PENINSULA.	Corunna ...																*			
	Lisbon	29.74	66	S	6	c	29.84	+.02	59	56	-3	SW	5	0	*	c	*	73	59	—
	Azores (P. Delgada)	29.50	54	WNW	4	bc	29.61	+.47	57	54	+8	WSW	4	c	5	bc	*	57	49	0.08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

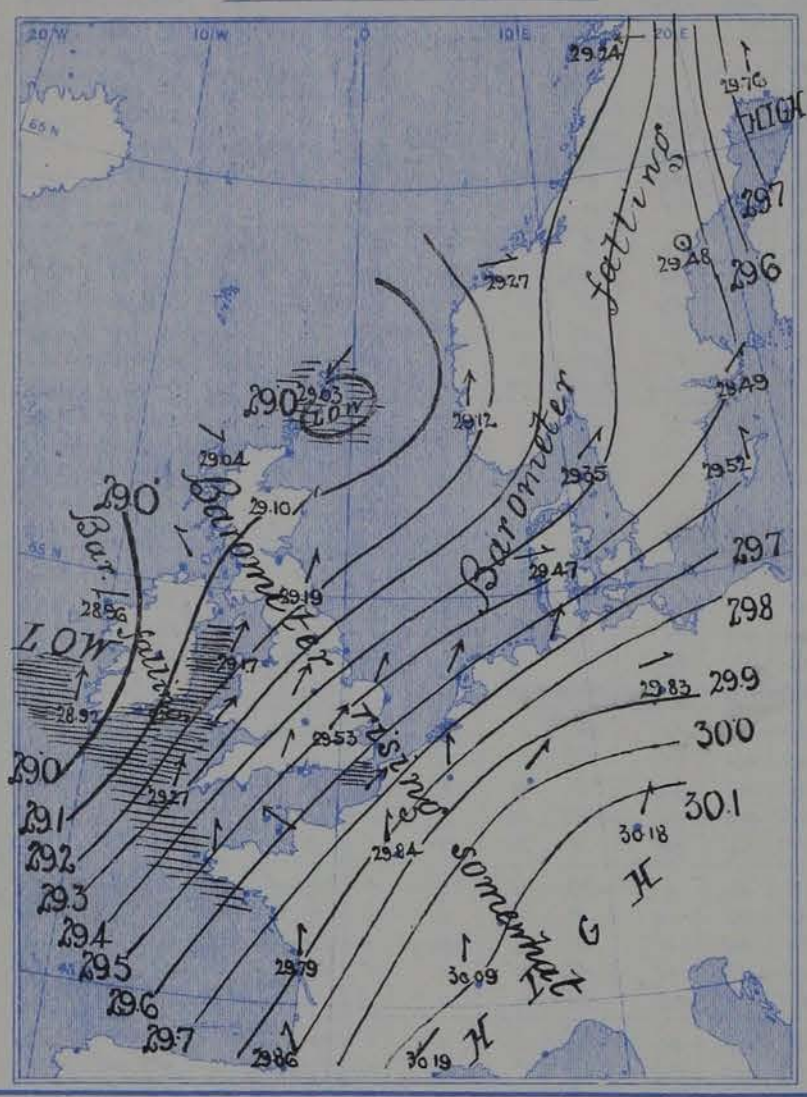
FOR *Friday, 10th February,* 1899.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙
Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

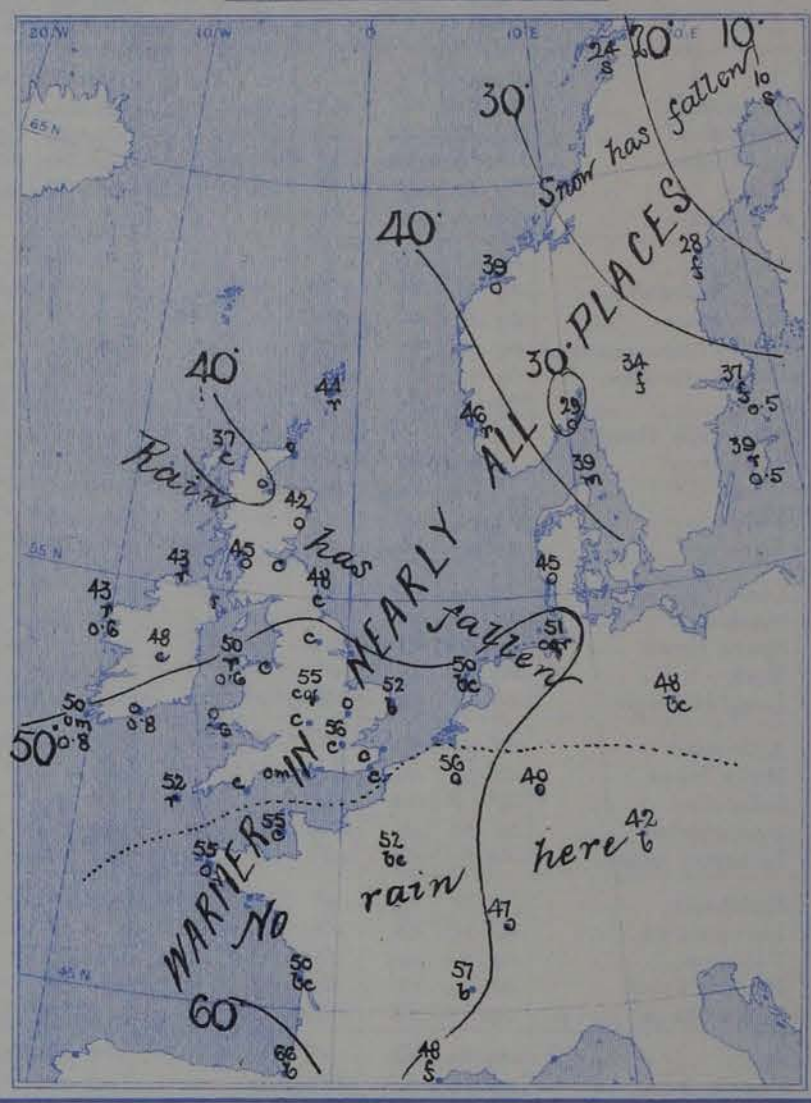
SEA—Rough ▒ ; *High* ▒



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL— { *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.*



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF FEBRUARY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 · 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and upwards over the extreme southern parts of France and Germany.
Lowest 28.9 ins. and less (apparently) in a depression lying off the W. of Ireland; 29.0 ins. and less in a small shallow system off the NE. of Scotland.
Gradients rather steep over the S^rn. parts of our Islands and all neighbouring parts of the Continent, moderate or slight elsewhere. Barometer rising in most parts of Gt. Britain and France; falling in Ireland and also in Scandinavia and Denmark.

TEMPERATURE

Highest 66° at Biarritz, 59° at Lisbon, and 56° in London, and 55° at Loughborough, Liverpool, Jersey & Brest.
Lowest 10° at Haparanda, 24° at Bodö, 28° at Hernösand, and 29° at Faerder; lowest in our Islands 37° at Stornoway, and 38° at Nairn.
During yesterday the thermometer exceeded 55° in many parts of England, and reached 59° at Loughborough, Oxford and Cambridge. In London the minimum recorded during the night was as high as 56°.

WIND

S^ly. or SW^ly. over western Europe as a whole and strong to a gale in force on our own W^rn. coasts.
Moderate from the SE^wd. or E^wd. in the north of Ireland.
Light from the W^wd. in the north and east of Scotland generally; but NE^ly. in the Shetlands.

WEATHER

Cloudy or dull over NW^rn. Europe, with rain at many of our own W^rn. stations, as well as in the S. of Scandinavia; foggy in Sweden; snow falling at Bodö and Haparanda.
Fine over the greater part of France and Germany.
Rain fell yesterday over nearly the whole of NW^rn. Europe; the largest amounts being 0.8 in. at Valeraa and Rockes P^t., and 0.6 in. at Belmullet.

SEA

Rough on many parts of our W^rn. coast as well as off the N. of France, and rather rough at Dunbugh Hd., moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Another depression has appeared off the W. of Ireland, and squally unsettled weather is therefore likely to continue over the greater part of our Islands, with gales on several parts of our W^rn. and S^rn. coasts.

FORECASTS

For the 24 hours ending at NOON on 11th FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW^ly. to S^ly. breezes; dull, some rain.
1 SCOTLAND EAST	
▼ 2 ENGLAND N.E.	Same as No. 5.
▼ 3 ENGLAND EAST	
4 MIDLAND COUNTIES	
▼ 5 ENGLAND SOUTH	S^ly. and SW^ly. winds, increasing in force, mild, squally, some showers.
6 SCOTLAND WEST	SE^ly. to SW^ly. winds, freshening considerably; squally, rain at times.
▼ 7 ENGLAND N.W.	S^ly. and SW^ly. gales and strong winds; squally, rain at times.
▼ 8 ENGLAND S.W.	
▼ 9 IRELAND NORTH	Same as No. 6.
▼ 10 IRELAND SOUTH	Same as Nos. 7 and 8.
WARNINGS	The SOUTH CONE was hoisted last evening in district 2, and rehoisted in districts 3, 5 and 7 to 10.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.16	40	39	SSE	8	+	5
Sumburgh Head	28.93	45	44	WSW	3	o	7
Stornoway	28.95	49	48	SW	3	c	3
Aberdeen	29.11	45	42	SSW	4	cq	5
Shields	29.24	51	48	SW	2	om	2
Ardrossan	29.07	47	46	SSE	2	om	2
Malin Head ...	28.94	46	46	SSE	4	o	3
Belmullet	28.84	44	42	SW	4	+	*
Holyhead	29.06	46	46	SE	7	fqgm	6

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	28.71	54	52	S	6	omq	6
Scilly	29.18	55	54	S	9	omp	7
Jersey	29.53	56	53	SE	5	c	4
Hurst Castle ...	29.45	55	52	SSW	6	omp	4
Dungeness ...	29.56	51	50	S	4	+	4
North Foreland							
London (Westminster)	29.46	55	53	SSW	6	ot	*
Yarmouth ...	29.49	52	50	S	4	ot	4
Rochefort ...	29.76	54	52	S	4	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over Europe as a whole, with rain on our own SW. coasts, as well as in Denmark and N. Germany; snow falling in the S. of Scandinavia, and also at St. Petersburg; foggy in Austria. Fine at several of our own northern and eastern stations as well as over the Spanish peninsula, the extreme S. of France, Greece and the greater part of Russia. Rain falling later over NWrn Europe generally, – heavily in the W. of our Islands; snow occurring in the N. of Scandinavia.

Temperature rises over Wrn and Nrn Europe generally, – rapidly in Sweden; fallen quickly over central Russia. Morning readings highest 70° at Oran, 68° at Algiers, and 66° at Biarritz and Nemours; above 50° in the W. of France and at some of the English Channel stations. Lowest –15° at Archangel, –9° at Kuopio, and –5° at Moscow; below the freezing point in most parts of Russia and Scandinavia. Rising during day to between 57° and 59° at several of the English stations, exceeding 60° in several parts of France, and reaching 73° at Biarritz and Lisbon. Succeeding night unusually mild over England.

Wind strong from the Swd or SEd over Portugal, the Bay of Biscay and on our southwest coasts; moderate to fresh from the SWd over the northern and eastern parts of our Islands, and also over Denmark, Germany, the Netherlands and central France; strong to a gale from the Sd over the Baltic and Sweden; SEly or Ely in Norway; light from the Wd in the north and east of Scotland. Light from the Nd or NWd over the central and southern parts of Russia; variable in Greece and Italy. Subsequently increasing to a gale from the Sd or SWd on our western coasts.

Barometer highest 30.47 ins. at Kharkow, 30.40 ins. at St. Petersburg; 30.2 ins. and upwards in an anticyclone covering nearly the whole of Russia and Srn Europe. Lowest 28.8 ins. or less in a depression off the N. of Scotland; 29.9 ins. and less in another disturbance approaching the W. of Ireland. Centre of latter disturbance subsequently skirting our extreme NWrn and Nrn coasts in a NEly direction.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on SATURDAY FEBY 11TH 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.83	12	SSW	4	0	29.63	−.13	11	10	+1	E	2	0	*	0	*	16	−4	—
	Hernösand ...	29.62	30	SE	4	d	29.19	−.29	30	30	+2	d	2	0	*	d	*	32	21	0.79
	Stockholm ...	29.53	34	d	2	f	29.40	−.09	41	40	+4	SW	2	0	*	f	*	41	32	0.08
	Wisby	29.63	41	WSW	4	0	29.58	+.06	48	41	+4	WSW	6	b	*	0	*	48	34	—
	Karlstad ...	29.42	36	Z	0	f	29.34	−.07	34	34	+3	WSW	2	0	*	f	*	*	*	0.08
	Bodö	29.45	27	E	4	b	29.24	0.0	27	24	+3	ESE	6	0	2	b	*	27	23	—
	Christiansund ...	29.10	38	WSW	2	0	28.95	−.32	38	34	−1	Z	0	f	4	0	*	39	34	0.28
	Skudesnaes ...	29.13	45	SSW	8	f f	29.14	+.05	46	45	0	NW	6	f f	5	0 f f	*	46	36	*
	Færder (Christiania Fjord)	29.38	32	E	1	f	29.28	−.05	39	38	+10	SW	6	m	4	f	*	39	28	0.16
	Skagen (The Scaw)	29.41	40	SW	3	m	29.45	+.10	41	40	+2	WSW	4	m	0	m	*	45	34	—
	Fanö	29.58	45	W	3	b	29.60	+.13	42	42	−3	WSW	3	bc	*	b	*	46	36	—
	Sumburgh Head	28.91	42	NE	2	f	29.07	+.04	34	36	−7	Z	0	c	4	f	*	45	36	0.15
	Stornoway ...	28.91	43	ESE	2	0	29.04	0.0	42	41	+5	WSW	2	0	2	0 f . 0	0.0	45	35	0.40
	Wick	28.99	45	W	2	f	29.11	+.06	43	42	+1	W	2	bc	2	f . b	*	48	38	0.05
	Nairn	28.94	40	Z	0	f	29.10	+.04	43	42	+5	Z	0	0	1	f	*	44	36	0.18
	Aberdeen ...	29.00	44	SSW	2	ogq	29.16	+.06	47	44	+5	SW	2	c	2	o f g . o g q	0.0	49	42	0.04
BRITISH ISLANDS.	Leith	29.03	50	W	3	0	29.19	+.05	49	46	+3	WSW	2	c	*	0	*	54	43	0.15
	Shields	29.23	50	SSW	4	bc	29.28	+.09	49	46	+1	SSW	4	c	2	c d f . b c	*	60	46	—
	Spurn Head ...	29.40	51	SSW	5	b	29.49	+.14	45	45	−3	SSW	4	bc	4	c . b q	*	66	45	—
	York	29.33	53	SSW	3	bc	29.44	+.15	47	45	−7	d	2	b	*	bc	1.3	50	45	—
	Loughborough ...	29.44	53	SW	4	c	29.50	+.13	47	45	−8	SSW	4	bc	*	c q . b c . b	*	62	47	—
	Ardrossan ...	29.01	48	d	4	o f	29.18	+.06	48	47	+3	d	4	0	4	0 . o f	*	48	42	0.19
	Malin Head ...	28.88	46	SW	7	o q †	29.05	+.01	46	45	+3	d	4	c f	2	c . 0	*	48	43	0.07
	Belmullet ...	28.98	45	WSW	2	0	29.04	+.08	48	47	+5	d	3	c	*	c . 0	*	50	43	0.19
	Donaghadee ...	29.07	52	WSW	6	c	29.21	+.09	47	47	+1	SW	6	bc	4	c	*	52	45	0.06
	Liverpool (Bidston)	29.33	51	SW	5	b f	29.39	+.14	51	46	−4	SSE	3	c	3	b . f	*	58	46	0.02
	Holyhead ...	29.25	50	SSW	7	c q m	29.31	+.14	49	48	−1	d	7	d q	6	c q f d . c q m	*	52	47	0.12
	Parsonstown ...	29.10	50	d	2	f	29.14	+.12	48	47	0	SE	1	o f	*	c f	2.9	53	46	0.06
	Valencia ...	29.03	49	d	3	g f	29.06	+.14	48	46	−2	d	2	f m g	4	c f . g f l	1.5	52	46	0.71
	Roche's Point ..	29.17	51	SW	8	c	29.18	+.13	50	50	−1	SSW	8	o	6	c . t t h t q	*	52	48	0.40
	Pembroke (St. Ann's Hd.)	29.30	51	WSW	6	b	29.36	+.14	50	49	−1	SW	7	b	6	b	3.5	51	49	0.01
	Scilly	29.40	53	SSW	8	c	29.35	+.08	52	50	0	d	6	c	5	b . c	4.4	56	53	0.01
	Prawle Point ...	29.32	49	SSW	5	bc	29.32	+.08	49	48	−4	SSW	4	c f	3	bc	*	55	48	—
	Jersey (St. Aubin's)	29.67	55	SW	4	c g	29.64	+.07	51	49	−4	SSE	5	c g	4	c . c g . b	*	61	50	—
	Hurst Castle ...	29.61	50	SW	4	b c m	29.62	+.12	51	48	−3	SSW	5	c m	3	c m . b c m	*	59	49	—
	Dungeness ...	29.62	54	SSW	5	c	29.70	+.12	49	48	−2	SSW	4	f	4	c	*	54	48	0.01
	North Foreland																*			
	London (Brixton) ...	29.60	56	SW	4	0	29.64	+.11	51	48	−5	SW	5	c	*	bc . 0	4.9	66	50	—
	Oxford	29.56	50	SSW	6	b	29.56	+.10	49	48	−5	d	3	bc	*	b q	*	62	49	0.01
	Cambridge ...	29.53	54	SW	4	b q	29.58	+.10	50	48	−4	SSW	5	0	*	q . b	5.9	65	47	—
	Yarmouth ...	29.49	55	SSW	4	b	29.60	+.10	50	48	−2	SSW	4	bc	4	b	*	55	47	—
GERMANY & HOLLAND.	Cuxhaven ...	29.69	56	SSW	3	bc	29.73	+.09	48	47	−3	SW	4	c	*	bc	*	56	46	—
	Berlin	29.88	49	SW	3	b	29.90	+.07	42	40	−6	SW	2	b	*	b	*	59	41	—
	Wiesbaden ...	*	*	*	*	*	29.96	−.07	37	36	−3	SE	2	b	*	*	*	54	36	—
	Munich... ..	30.12	44	SW	2	b	30.10	−.08	36	34	−6	SSW	3	b	*	b	*	59	36	—
	The Helder ...	29.62	54	SSW	6	b	29.69	+.10	46	44	−4	SW	3	c	1	b	*	57	46	—
BELGIUM.	Brussels ...	*	*	*	*	*	29.83	+.06	49	45	−7	d	2	c	*	bc	*	66	46	—
	Cape Gris Nez ..	?	55	SW	5	c	?	?	51	48	−1	SW	5	c	5	c	*	57	45	—
	Paris	29.83	60	SSE	2	b	29.87	+.03	44	41	−8	d	2	bc	*	b	*	69	44	—
	Brest	29.64	52	SW	2	c	29.57	+.12	51	50	−4	d	4	c	5	c	*	57	48	—
	Lorient... ...	29.73	52	SW	5	c	29.65		51	51		d	6	c	?	c	*	?	?	0.32
FRANCE &	Rochefort ...	29.80	57	d	5	0	29.76	−.03	51	50	+1	d	4	0	*	c . 0	*	?	48	—
	Belfort	30.01	60	W	2	b	30.01	−.04	48	48	−4	WSW	2	b	*	b	*	69	43	—
	Lyons	30.37	61	d	3	b	30.01	−.08	57	45	0	d	5	b	*	b	*	67	57	—
	Nice	30.29	49	SSE	1	bc	30.26	−.05	42	42	−2	E	3	b	3	bc	*	59	44	—
	Perpignan ...	30.18	52	Z	0	0	30.01	−.18	48	48	0	Z	0	0	*	0	*	57	43	—
	Biarritz ...	29.85	72	d	5	b	29.76	−.10	68	54	+2	d	6	0	4	b	*	77	66	—
PENINSULA.	Corunna ...																*			
	Lisbon	29.91	57	WSW	3	bc	29.96	+.09	57	55	−2	SW	4	b	*	. 0 . bc	*	64	55	—
	Azores (P. Delgada)	29.81	58	WNW	3	0	29.92	+.31	58	57	+1	W	3	0	3	† . 0	*	61	55	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

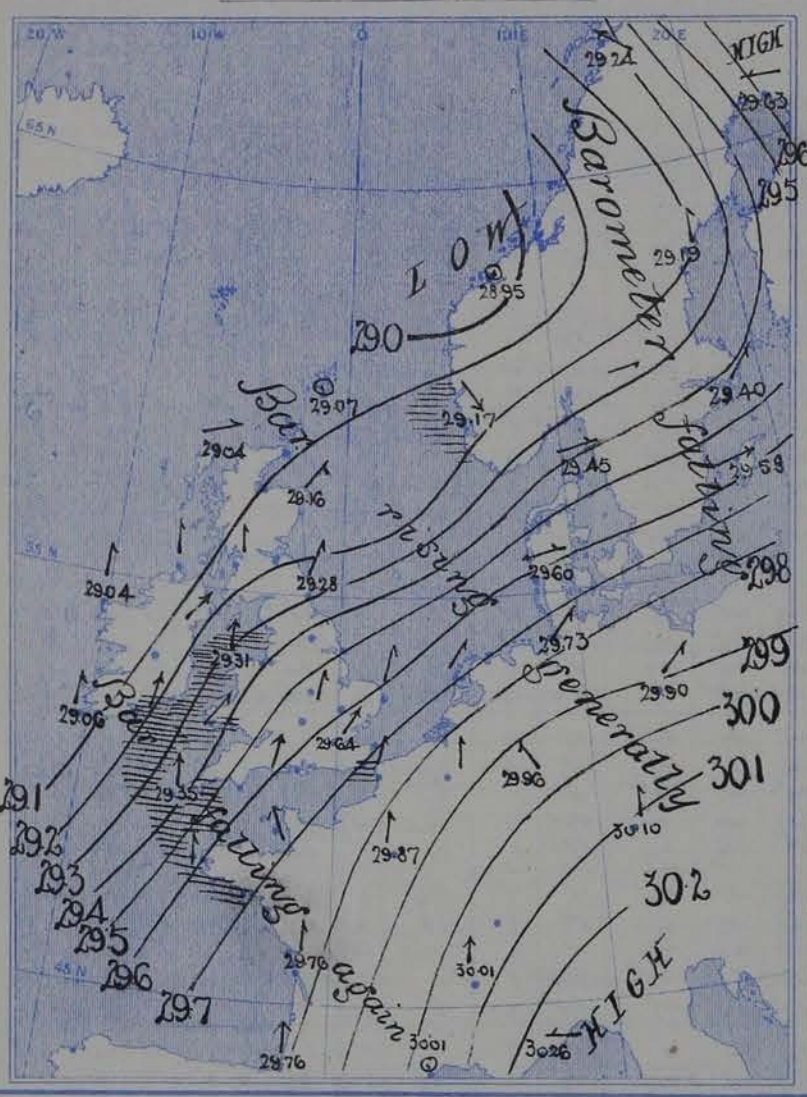
Bright Sunshine yesterday Southport 3.2 hrs;

WEATHER CHARTS

FOR Saturday, 11th February, 1899.

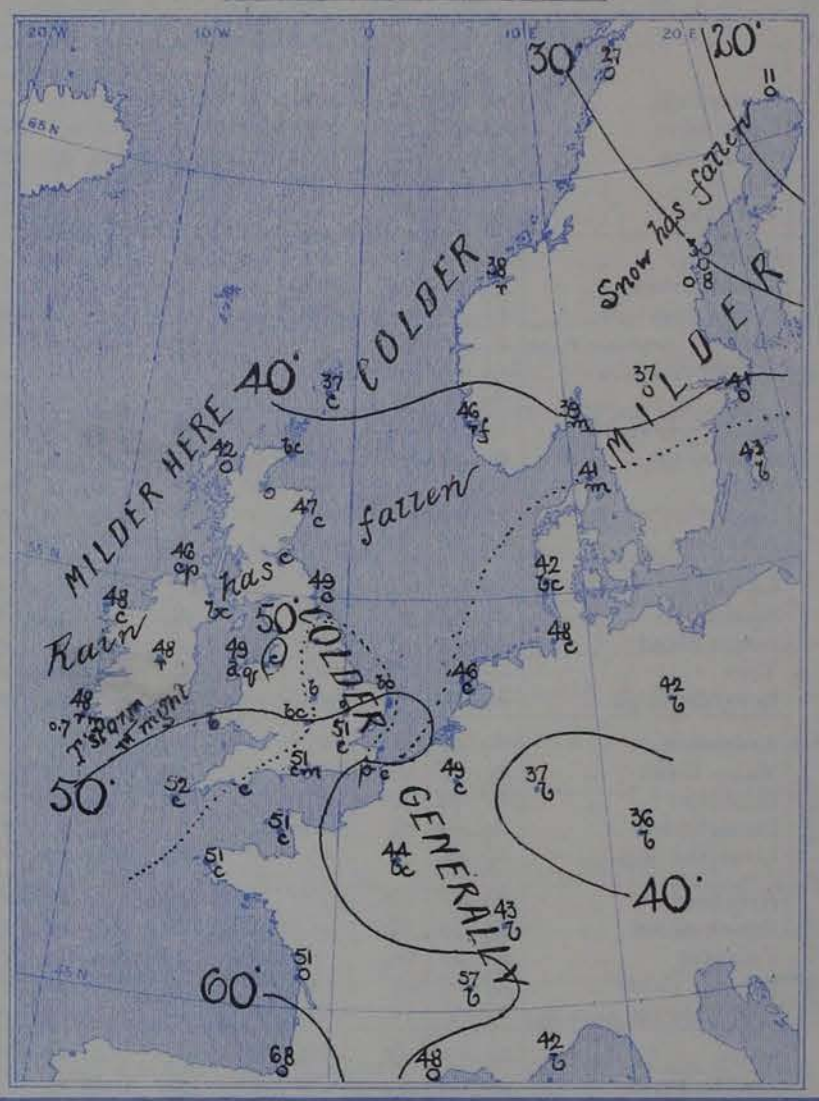
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1·65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·9	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.26 ins. at Nice; 30.1 ins. and upwards over S. Germany and the SE. of France.
Lowest 29.0 ins. and less in a depression off the W. of Norway, and apparently in another disturbance lying to the Wd. of our Islands.
Gradients steep over Ireland, England, the North Sea, Denmark and the S. of Scandinavia, moderate or slight elsewhere. Barometer rising over the greater part of our Islands, the North Sea, Denmark and N. Germany; falling on our extreme W. and SW. coasts, and also in the W. & S. of France.

TEMPERATURE

Highest 68° at Biarritz, 52° at Scilly, and 51° in London and at Liverpool, Hurst Castle, Cape Gris Nez, Jersey, Brest and Rochefort.
Lowest 11° at Haparanda, 27° at Bodö, 30° at Hernösand, 37° at Karlstad & Sumburgh Pt. & 38° at Christiansund.
During yesterday the thermometer rose to 60° and upwards at most of the English stations, to 65° at Cambridge, and to 66° in London.

WIND

S.ly over England, Ireland and France, and strong to a gale in force on our western coasts. SW.ly in Scotland and also in Denmark, Germany and the south of Scandinavia, but E.ly in the north of Scandinavia.

WEATHER

Fine over Denmark, Germany, the Netherlands and the E.rn parts of England and France. Cloudy or dull elsewhere, with rain at several of our own W.rn stations & also in the W. of Norway. Rain fell yesterday in the W. and N. of our Islands generally, as well as at many of the Scandinavian stations. Thunder and lightning occurred at Roche's Pt., & lightning only at Valencia.

SEA

Rough on many parts of our W.rn coasts, and rather rough off the N. of France, as well as at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The fresh fall of the barometer in the W. appears to indicate the approach of another depression towards the Irish coasts. S.ly gales are likely to continue in the W., and very strong winds from the same quarter in many parts of England.

FORECASTS

For the 24 hours ending at NOON on 12th FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W.ly to S.ly winds, light or moderate; fair at first, some rain later.
1 SCOTLAND EAST	
2 ENGLAND N.E.	Same as No. 5.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	S.ly winds, strong at times; fair generally.
6 SCOTLAND WEST	S.ly winds, freshening; dull, some rain.
7 ENGLAND N.W.	S.ly winds, strong, a gale in places; cloudy, squally, some rain.
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	

WARNINGS

The SOUTH CONE is still flying in districts 2, 3, 5 and 7 to 10.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.23	44	43	S	6	of	4
Sumburgh Head	28.99	44	44	NE	2	f	5
Stornoway ...	28.96	45	45	S	3	of	3
Aberdeen	29.04	43	42	S	2	ofg	4
Shields	29.16	56	53	SW	4	cdp	3
Ardrossan	28.99	48	48	S	4	o	3
Malin Head ...	28.85	47	46	S	5	c	S
Belmullet	28.87	50	49	WSW	4	c	*
Holyhead	29.19	51	50	SSW	7	cqpd	6

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.07	53	50	S	5	cp	6
Scilly	29.34	55	52	SSW	7	b	6
Jersey	29.62	61	54	SSW	4	c	4
Hurst Castle ...	29.54	59	53	SSW	6	cm	4
Dungeness ...	29.60	53	52	SSW	5	c	4
North Foreland							
London (Westminster)	29.51	66	56	SSW	5	bc	*
Yarmouth ...	29.47	54	49	S	5	b	4
Rochefort ...	29.80	62	55	S	5	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over NW.rn and N.rn Europe generally, and also in Italy; rain falling at many of our own W.rn stations, as well as in the S. of Scandinavia. Fog reported in Sweden, Denmark and Austria, and snow in Finland and the N. of Scandinavia. Fine over France, Spain and the greater part of Germany. Rain falling later in the W. and N. of our Islands generally, as well as at many of the Scandinavian stations; thunder and lightning occurring in the S. of Ireland.

Temperature risen over our Islands and N.rn and central Europe generally, changed irregularly elsewhere. Morning readings highest 68° at Algiers, 67° at Nemours, and 66° at Biarritz; as high as 56° in London, and 55° in several other parts of England. Lowest −4° at Moscow, +9° at Kuopio, 10° at Haparanda, and 12° at Vilsebory; below the freezing point over Russia and the northern parts of Scandinavia generally. Rising during day to 60° and upwards at many of the English stations, and reaching 66° in London, the reading in the metropolis being the highest recorded in February for more than 50 years past. Touching 66° also at Brussels, 69° at Paris and Belfort, and 77° at Biarritz.

Wind S.ly to SW.ly over western and central Europe generally, and strong to a gale in force on our own western coasts, but moderate from the SE.rly or E.rly in the W. of Ireland. Light from W. in the north of Scotland, but from NE. in the Shetlands. S.ly or SE.ly over Russia and the Gulf of Bothnia; E.ly at Bodö. Calm in Austria; variable in Italy; E.ly or SE.ly over Spain and the extreme south of France. No important change occurring during day.

Barometer highest 30.3 ins. and upwards in three areas,—one lying over central and S.rn Russia and the Black Sea, another over Italy, and the third, a small one off the extreme S. of Spain, 28.9 ins. and less (apparently) in a depression off the W. of Ireland, 29.0 ins. and less in a small shallow system off the NE. of Scotland. Irish depression subsequently moving N.wds. and barometer rising in west.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on SUNDAY FEBRUARY 12TH 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.39	12	S	4	s	29.57	−.26	12	12	+1	NE	2	s	*	s	*	14	7	0.16
	Hernösand ...	29.25	24	E	0	0	29.41	+.22	18	18	−12	E	2	0	*	0	*	30	18	0.08
	Stockholm ...	29.38	43	SW	2	b	29.38	−.02	39	39	−2	W	2	f	*	b	*	45	34	—
	Wisby	29.55	42	SSW	4	b	29.50	−.08	41	40	−2	S	4	f	*	b	*	45	37	0.12
	Karlstad ..	29.38	39	WSW	6	b	29.35	+.01	36	36	−1	S	2	f	*	b	*	*	*	—
	Bodö	29.29	20	SE	5	0	29.39	+.15	19	17	−8	E	4	0	1	0	*	27	18	—
	Christiansund ...	29.15	39	SW	8	+	29.32	+.37	34	32	−4	ENE	3	bc	4	+	*	39	32	0.35
	Skudesnaes ...	29.30	43	SW	2	0	29.08	−.09	43	41	−3	ENE	4	+	3	+.0	*	46	41	*
	Færder (Christiania Fjord)	29.35	33	SW	4	m	29.27	−.01	37	37	−2	SE	2	f	3	m	*	39	33	—
	Skagen (The Scaw)	29.49	42	WSW	3	m	29.28	−.17	39	38	−2	SSW	3	m	0	m	*	48	37	0.04
	Fanö	29.64	43	WSW	1	0	29.35	−.25	43	42	+1	SW	4	bc	*	0	*	45	37	0.12
BRITISH ISLANDS.	Sumburgh Head	29.16	43	ESE	1	0	28.90	−.17	44	44	+7	ESE	3	+	4	0	*	45	35	0.18
	Stornoway ...	28.96	46	SSE	4	+	28.78	−.26	45	44	+3	SW	3	0	3	0.+	0.0	48	39	0.35
	Wick	29.09	45	S	3	0	28.82	−.29	44	44	+1	W	1	f	1	0	*	49	41	0.05
	Nairn	29.03	47	WSW	1	0	28.83	−.27	41	40	−2	SW	1	bc	1	0	*	50	39	—
	Aberdeen ...	29.13	45	SSE	2	bc	28.86	−.30	43	41	−4	SW	3	bc	3	ogf.bc.+	0.3	49	42	0.26
	Leith	29.09	48	SSW	3	bc	28.89	−.30	44	43	−5	SSW	1	0	*	bc	*	54	43	0.05
	Shields	29.17	49	S	3	c	28.97	−.31	43	42	−6	SSW	3	od	2	bc.c	*	56	42	0.01
	Spurn Head ...	29.29	45	SSE	5	b	29.09	−.40	45	44	0	SSW	5	c	4	b.q	*	53	43	—
	York	29.23	50	S	2	c	29.03	−.41	44	42	−3	S	2	c	*	b.c	3.5	55	42	0.11
	Loughborough ...	29.26	49	SSE	4	c	29.12	−.38	43	41	−4	SSW	3	cu	*	c.b.qof	*	55	43	0.01
	Ardrossan ...	28.98	49	S	4	om	28.87	−.31	43	43	−5	E	3	of	3	m.om	*	49	43	0.02
	Malin Head ...	28.79	47	S	5	ofm	28.86	−.19	41	40	−5	S	2	ogm	1	o.ofm	*	50	40	0.10
	Belmullet ...	28.89	46	SW	2	0	29.00	−.04	44	43	−4	NW	4	+	*	+.o	*	48	40	0.03
	Donaghadee ...	28.92	49	SSE	7	+	28.89	−.32	40	40	−7	W	5	c	3	+	*	51	39	0.18
	Liverpool (Bidston)	29.12	51	SE	3	0	29.01	−.38	42	40	−9	SSE	1	bc	2	c.of	*	54	42	0.07
	Holyhead ...	29.00	49	SSE	7	oqf	28.91	−.40	45	43	−4	S	6	cfu	4	oqm.oqf	*	52	43	0.10
	Parsonstown ...	28.94	44	SW	1	0	28.91	−.23	37	37	−11	NW	1	om	*	o+	0.0	52	36	0.12
	Valencia ...	28.99	44	SW	3	0	29.10	+.04	45	42	−3	W	8	ou	6	+m.o	0.4	49	41	0.87
	Roche's Point ..	29.01	48	W	5	bc	29.03	−.15	43	43	−7	NW	7	+	5	f.bc.f	*	51	42	0.35
	Pembroke (St. Ann's Hd.)	29.01	48	SW	5	+	28.95	−.41	47	45	−3	W	8	cq	7	+	2.2	50	46	0.62
	Scilly	29.18	49	WSW	8	oq	29.28	−.07	49	44	−3	W	9	oq	7	oq	0.8	54	49	0.24
	Prawle Point ...	29.28	48	SSW	6	o	29.27	−.25	45	43	−4	WSW	8	tlfu	6	of.qthf	*	51	41	0.21
	Jersey (St. Aubin's)	29.40	54	SSW	7	c	29.47	−.17	47	43	−4	SW	6	bc	6	bc.c.	*	56	44	0.03
	Hurst Castle ...	29.30	54	SSW	7	cf	29.30	−.32	45	43	−6	SW	5	cf	3	c.cf.q	*	54	43	0.18
	Dungeness ...	29.44	50	SSE	4	c	29.33	−.34	45	45	−4	SW	6	chq	6	o.c	*	53	43	0.04
	North Foreland																*			
	London (Brixton) ...	29.35	53	SSW	5	bc	29.30	−.34	43	41	−8	SW	7	bc	*	bc.oq+	0.6	55	42	0.10
	Oxford	29.20	51	SSE	8	f	29.20	−.36	42	41	−7	SSW	5	bcq	*	f	*	54	41	0.06
	Cambridge ...	29.34	50	S	4	c	29.21	−.37	44	42	−6	SW	5	bc	*	cq	2.1	55	43	0.03
	Yarmouth ...	29.42	45	S	4	b	29.23	−.37	47	45	−3	SSW	5	c	4	c.b	*	53	44	—
GERMANY & HOLLAND.	Cuxhaven ...	29.66	48	SSW	1	c	29.47	−.26	46	44	−2	SW	4	c	*	c	*	52	45	—
	Berlin	29.76	48	S	0	b	29.58	−.32	42	40	0	SSW	2	c	*	b	*	57	41	—
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich... ..	29.92	44	SE	2	b	29.89	−.21	43	39	+7	SW	3	bc	*	b	*	57	36	—
	The Helder ...	29.52	50	S	1	c	29.38	−.31	46	44	0	SSW	5	b	3	c	*	54	45	—
FRANCE & BELGIUM.	Brussels ...	*	*	*	*	*	29.52	−.31	48	45	−1	S	6	+	*	o	*	61	47	—
	Cape Gris Nez...	?	53	S	4	c	?	?	48	45	−3	WSW	5	o	5	c	*	57	45	—
	Paris	29.65	59	S	3	bc	29.65	−.22	49	45	+5	SSW	6	c	*	bc	*	65	44	—
	Brest	29.44	50	WSW	7	c	29.52	−.05	49	46	−2	WSW	6	o	8	c	*	54	41	0.16
	Lorient... ...																*			
	Rochefort ...	29.76	54	SW	5	+	29.81	+.05	52	49	+1	WSW	6	o	*	o.+	*	59	46	0.12
	Belfort ... -														*		*			
	Lyons	29.91	59	S	3	o	29.92	−.09	52	49	−5	S	3	o	*	o	*	68	51	—
	Nice	30.19	50	SE	1	o	30.11	−.15	43	42	+1	ESE	1	bc	3	o	*	57	41	—
	Perpignan ...	30.01	52	NE	2	bc	30.00	−.01	46	46	−2	SW	2	o	*	bc	*	63	43	—
	Biarritz ...	29.76	63	NNW	5	+	29.97	+.21	55	51	−13	W	4	o	3	+	*	77	52	—
PENINSULA.	Corunna ...	29.81	58	WSW	3	bc	30.09		52	49		SSW	3	f	5	bc	*	59	45	0.08
	Lisbon	30.18	54	W	3	b	30.25	+.29	54	53	−3	S	2	m	*	c.b	*	59	52	0.28
	Azores (P. Delgada)	30.10	57	SW	4	b	30.01	+.09	60	59	+2	SW	4	o	5	bc.b	*	64	57	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

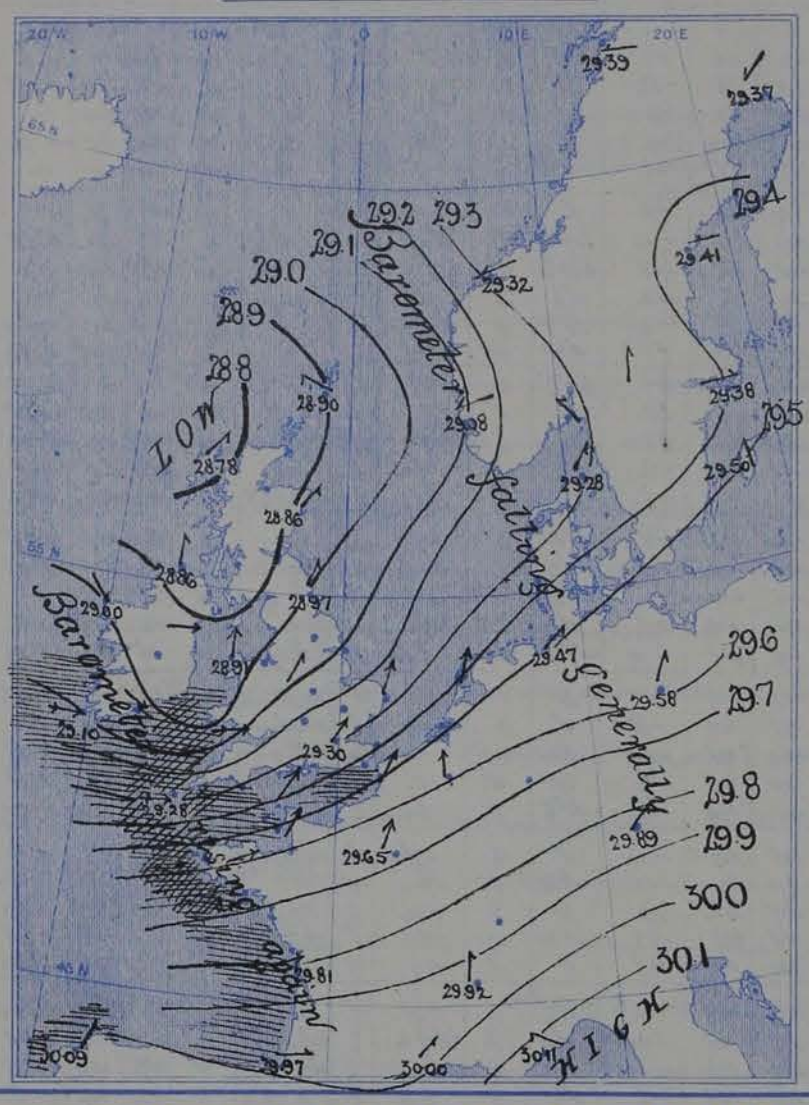
Bright Sunshine yesterday Southport 1·5 hrs;

WEATHER CHARTS

FOR Sunday, 12th February, 1899.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; } Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards over the south of Portugal.
Lowest 29.8 ins. and less in a depression off the N.W. of Scotland, 29.0 ins. and less in a V-shaped secondary system extending S.wds. over the Irish Sea and the St. George's Channel.
Gradients rather steep over the S. of our Islands and the neighbouring parts of the Continent, but moderate or slight elsewhere. Barometer falling over N.W. Europe generally, but rising in the extreme W. of our Islands, and also in the west of Norway.

TEMPERATURE

Highest 55° at Biarritz, 54° at Lisbon, 52° at Rochefort, Lyons & Coruna, & 49° at Scilly, Brest & Paris.
Lowest 12° at Haparanda, 18° at Hernösand, 19° at Bodö, and 34° at Christiansund; lowest in our Islands 37° at Parsonstown.
During yesterday the thermometer rose to between 50° and 55° in most parts of the United Kingdom, and to 56° at Shields and Jersey.

WIND

W.ly on the western coasts of our Islands and France, and strong to a gale in force in the south of Ireland and the southwest of England.
S.ly or SW.ly in the northern & eastern parts of our Islands & also over Denmark, Germany, the Netherlands & central France.
Light to moderate from the E.ward over the greater part of Scandinavia.

WEATHER

Changeable and showery over the greater part of the United Kingdom with a thunderstorm at Prawle Point.
Fine over Holland, Denmark and Germany, but cloudy over the W.rn parts of the Continent generally, with fog in the S. of Sweden and rain at Wisby and Brussels; snow was falling at Haparanda.
Rain fell yesterday over N.W.rn Europe generally, the largest amounts being 0.9 in. at Valencia (Ireland), and 0.6 in. at Pembroke.

SEA

Very high at Brest, high at Pembroke and Scilly and rough or rather so on our S. and SW. coasts generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 13TH FEBRUARY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
↑ 0 SCOTLAND NORTH	NONE ISSUED	↑ 6 SCOTLAND WEST	NONE ISSUED
↑ 1 SCOTLAND EAST		↑ 7 ENGLAND N.W.	
↑ 2 ENGLAND N.E.		↑ 8 ENGLAND S.W.	
↑ 3 ENGLAND EAST		↑ 9 IRELAND NORTH	
4 MIDLAND COUNTIES		↑ 10 IRELAND SOUTH	
↑ 5 ENGLAND SOUTH		WARNINGS	At 7.20 pm. yesterday to all districts. Hoist South Cone.

Note.—The **South Cone**, *point downwards* (↑), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.31	44	43	SW	6	+	6
Sumburgh Head	29.16	43	42	NE	1	0	4
Stornoway	29.02	48	47	SSW	4	0	4
Aberdeen	29.19	46	44	SSW	2	ogp	3
Shields	29.27	55	49	SW	4	be	4
Ardrossan	29.14	49	49	S	5	cm	4
Malin Head ...	28.95	50	48	S	4	0	2
Belmullet	28.94	47	46	S	2	+	*
Holyhead	29.19	52	49	S	7	ogm	6

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	28.94	47	46	SSE	2	+m	4
Scilly	29.11	52	50	S	7	og	5
Jersey	29.51	51	49	SE	4	be	4
Hurst Castle ...	29.46	50	48	SSE	3	c	2
Dungeness ...	29.55	50	49	S	4	0	3
North Foreland							
London (Westminster)	29.50	53	50	SSW	3	c	*
Yarmouth ...	29.53	47	45	S	4	c	4
Rochefort ...	29.71	55	52	S	4	0	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over Denmark, Germany, the Netherlands and the eastern and central parts of England and France, as well as in Spain. Cloudy or dull elsewhere, with rain at several of our own W^rn stations, and also in the W. of Norway; snow reported in Finland. Foggy in Italy and Austria. Rain falling later over NW^rn Europe generally, – heavily at some of our own SW^rn stations; lightning seen at Prawle Point at night.

Temperature risen over the N^rn parts of our Islands and the Continent, but fallen elsewhere. Morning readings highest 68° at Biarritz and Nemours, 67° at Algiers, and 64° at Oran; above 55° at several stations in the W^rn and central parts of France, and slightly above 50° in the S. of England. Lowest −12° F. at Archangel, −3° at Moscow, +1° at St. Petersburg, and 9° at Kuopio; below the freezing point over Russia, Austria and the N^rn parts of Scandinavia generally. Rising during day to between 50° and 55° in many parts of the United Kingdom, and to 56° at Shields and Jersey; exceeding 60° in Belgium and France, and reaching 77° at Biarritz.

Wind S^ly or SW^ly over England, Ireland, France, Germany and the Netherlands, and strong to a gale in force on our own western coasts. SW^ly or W^ly in Denmark and the south of Scandinavia; SE^ly or E^ly in the northern parts of Russia and Scandinavia. Calm in Austria; light from the N^wly or NE^rly in Italy; E^ly or NE^ly over Spain and the extreme south of France. Subsequently backing to the SE^rly in Scotland; no important change occurring elsewhere.

Barometer highest 30.3 ins. and upwards in an anticyclone lying over Italy, and also in another system over N^rn Russia. Lowest 29.0 ins. and less in a depression off the W. of Norway, and apparently in another disturbance lying to the W^rd of our Islands; 29.9 ins. and less in a shallow system over the extreme S. of Russia. Depression off Norwegian coasts subsequently moving NE^wds; centre of Atlantic disturbance appearing off the NW. of Ireland in evening.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on MONDAY FEBRUARY 13TH 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.40	12	NE	2	d	29.50	+.13	12	12	0	NE	2	d	*	d	*	18	7	0.04
	Hernösand ...	29.53	15	N	2	o	29.53	+.14	5	5	−13	NW	2	bc	*	o	*	23	5	—
	Stockholm ...	29.32	39	z	0	†	29.41	+.03	26	26	−13	NE	4	d	*	†	*	43	26	0.39
	Wisby	29.43	38	SSW	4	c	29.40	−.10	37	37	−4	SW	4	o	*	c	*	45	34	0.35
	Karlstad ...	29.29	34	z	0	o	29.36	+.01	31	30	−5	E	4	d	*	o.†	*	*	*	0.28
	Bodö	29.51	22	E	4	b	29.55	+.16	31	17	+2	E	4	b	1	b	*	22	18	—
	Christiansund ...	29.16	33	ENE	3	bc	29.18	−.14	35	33	+1	ENE	3	c	4	bc	*	36	32	—
	Skudesnaes ...	29.05	43	SSE	4	bc	29.20	+.12	42	42	−1	d	6	†	4	o.bc	*	43	41	*
	Færder (Christiania Fjord)	29.19	39	d	2	f	29.28	+.01	38	37	+1	d	1	m	3	f	*	41	36	0.35
	Skagen (The Scaw)	29.24	40	SSW	3	c	29.32	+.04	37	37	−2	WSW	1	f	0	c	*	46	34	0.12
	Fanö	29.28	41	NNE	1	b	29.41	+.06	41	40	−2	W	3	bc	*	b	*	45	39	0.04
BRITISH ISLANDS.	Sumburgh Head	28.86	43	ENE	3	†	29.01	+.11	43	43	−1	W	1	o	4	†	*	44	42	0.57
	Stornoway ...	28.96	46	W	2	†	28.88	+.10	43	42	−2	SE	3	o	3	od.†	0.9	49	33	0.12
	Wick	28.93	43	d	3	o	28.98	+.16	43	41	−1	d	3	bc	2	o	*	48	36	0.10
	Nairn	29.00	40	WNW	1	b	28.97	+.14	39	37	−2	z	0	o	1	b	*	51	34	—
	Aberdeen ...	28.99	43	W	1	bc	29.05	+.19	41	39	−2	SSE	2	og	2	bc	5.3	51	34	—
	Leith	29.02	46	SSW	1	bc	28.98	+.09	42	40	−2	ESE	2	o	*	bc	*	46	39	0.03
	Shields ...	29.08	47	SSW	3	m	29.10	+.13	43	42	0	d	3	mp	2	m	*	50	38	—
	Spurn Head ...	29.18	44	WSW	6	o	29.17	+.08	46	46	+1	d	4	o	4	†.o.c	*	49	38	0.10
	York	29.15	43	SW	3	c	29.12	+.09	45	40	+1	SSE	3	o	*	c	2.5	48	36	0.01
	Loughborough ...	29.28	42	W	6	b	29.17	+.05	50	48	+4	SSE	3	†	*	op.b.o†	*	50	38	0.10
	Ardrossan ...	29.08	46	W	2	c	28.89	+.02	42	42	−1	NNE	3	omp	3	c	*	48	38	0.03
	Malin Head ...	29.12	44	WSW	4	c	28.72	−.14	45	44	+4	SSE	4	og	3	bc.c	*	46	40	0.05
	Belmullet ...	29.14	44	SSW	2	o	28.70	−.30	44	43	0	ESE	3	o	*	b.o	*	49	41	0.12
	Donaghadee ...	29.16	44	WSW	4	bc	28.85	−.04	48	48	+8	SSE	6	o	4	bc	*	48	34	0.05
	Liverpool (Bidston)	29.27	45	WSW	5	op	29.01	0.0	48	47	+6	SE	3	†	3	op	*	48	39	0.05
	Holyhead ...	29.24	46	WSW	5	cqp	28.93	+.02	49	48	+4	S	6	dm	4	cqp	*	49	43	0.11
	Parsonstown ...	29.19	41	SE	1	c	28.73	−.18	46	46	+9	SW	1	o†	*	c	2.8	48	36	0.02
	Valencia ...	29.09	47	SSE	6	c	28.71	−.19	45	43	0	S	4	oqp	6	c	3.1	52	43	0.35
	Roche's Point ..	29.20	48	SW	5	og	28.78	−.25	48	48	+5	SSW	6	cp	5	og	*	51	43	0.30
	Pembroke (St. Ann's Hd.)	29.33	48	SW	3	o	28.95	0.0	50	49	+3	SW	7	o	6	o	4.0	50	43	0.13
	Scilly	29.30	47	S	5	†	28.99	−.29	51	49	+2	SSW	8	o	7	†	1.4	53	44	0.57
	Prawle Point ...	29.47	46	SW	6	†	29.14	−.13	49	49	+4	SSW	7	†q	6	†q	*	50	41	0.45
	Jersey (St. Aubin's)	29.63	50	WSW	7	c qp	29.39	−.08	51	49	+4	S	8	ou	6	o.cqp	*	51	43	0.24
	Hurst Castle ...	29.48	48	WSW	6	op	29.27	−.03	51	49	+6	SSW	7	op	4	op	*	51	43	0.38
	Dungeness ...	29.43	47	WSW	8	c	29.43	+.10	49	49	+4	SSW	6	†	5	c	*	50	41	0.32
GERMANY & HOLLAND.	North Foreland																*			
	London (Brixton) ...	29.42	44	W	6	b	29.35	+.05	50	48	+7	SSW	7	o†q	*	oqp.b.c†	2.0	51	43	0.18
	Oxford	29.42	45	SW	3	bc	29.20	0.0	50	49	+8	S	4	od	*	bcp	*	51	42	0.09
	Cambridge ...	29.33	45	WSW	6	bq	29.28	+.07	51	49	+7	SSW	5	og	*	bq	5.0	51	39	0.02
	Yarmouth ...	29.19	46	WSW	6	cg	29.32	+.09	49	48	+2	SSW	5	c	4	cgh	*	49	40	0.13
	Cuxhaven ...	29.41	45	SW	6	o	29.46	−.01	42	41	−4	SW	3	op	*	oq	*	52	41	0.08
	Berlin	29.57	50	SW	4	b	29.62	+.04	44	41	+2	W	4	bc	*	b	*	54	39	0.08
	Wiesbaden ...	*	*	*	*	*	29.77		45	43		SW	2	o	*	*	*	54	41	0.20
	Munich... ..	29.95	45	SW	7	o	29.97	+.08	46	42	+3	SW	7	o	*	o	*	55	39	—
	The Helder ...	29.26	45	SW	6	†	29.42	+.04	46	45	0	SW	3	bc	2	†	*	48	41	0.08
BELGIUM.	Brussels ...	*	*	*	*	*	29.61	+.09	50	45	+2	SW	6	o	*	c	*	51	42	0.24
	Cape Gris Nez...	?	47	W	7	†	?	?	49	46	+1	SW	6	o	6	†	*	50	43	0.35
	Paris	29.79	48	SSW	3	bc	29.73	+.08	47	41	−2	SSW	5	c	*	o.bc	*	53	46	0.08
	Brest	29.62	50	SW	6	†	29.29	−.23	52	51	+3	SW	5	†	6	†	*	52	46	0.16
	Lorient... ...																*			
FRANCE &	Rochefort ...	29.95	54	SW	6	o	29.69	−.12	48	46	−4	S	4	bc	*	c.o	*	55	45	—
	Belfort	29.96	46	WSW	8	o	29.95		44	39		Z	0	o	*	o	*	59	41	0.04
	Lyons	30.11	50	W	1	b	29.97	+.05	47	39	−5	SSE	1	c	*	b	*	62	41	—
	Nice	30.02	50	SW	1	f	30.10	−.01	43	41	0	E	2	b	2	f	*	57	43	—
	Perpignan ...	30.12	56	N	2	b	29.99	−.01	57	36	−9	SW	2	b	*	fb	*	63	36	—
	Biarritz ...	30.06	53	E	2	b	29.78	−.19	58	?	+3	SW	6	o	7	b	*	63	48	—
PENINSULA.	Corunna ...																*			
	Lisbon														*		*			
	Azores (P. Delgada)	30.02	56	WNW	4	b	30.04	+.03	52	46	−8	WNW	3	c	6	†.b	*	63	50	0.04

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

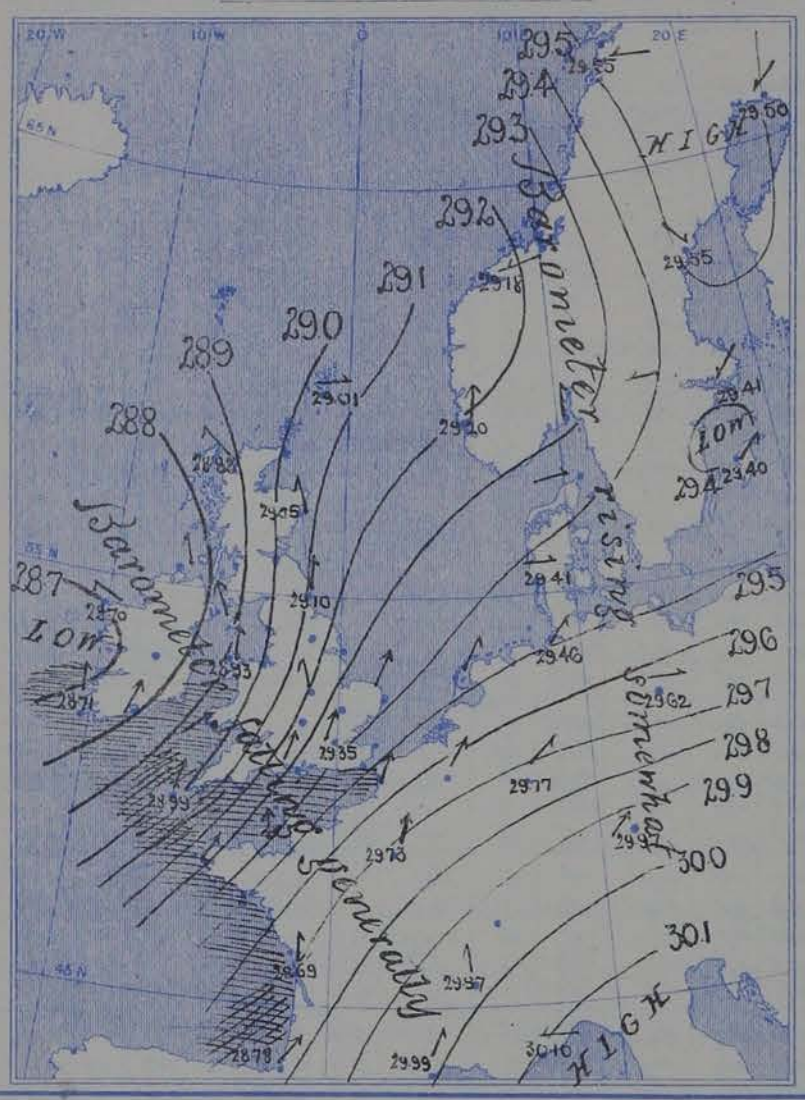
Bright Sunshine yesterday Southport 1.9 hrs;

WEATHER CHARTS

FOR Monday, 13th February, 1899.

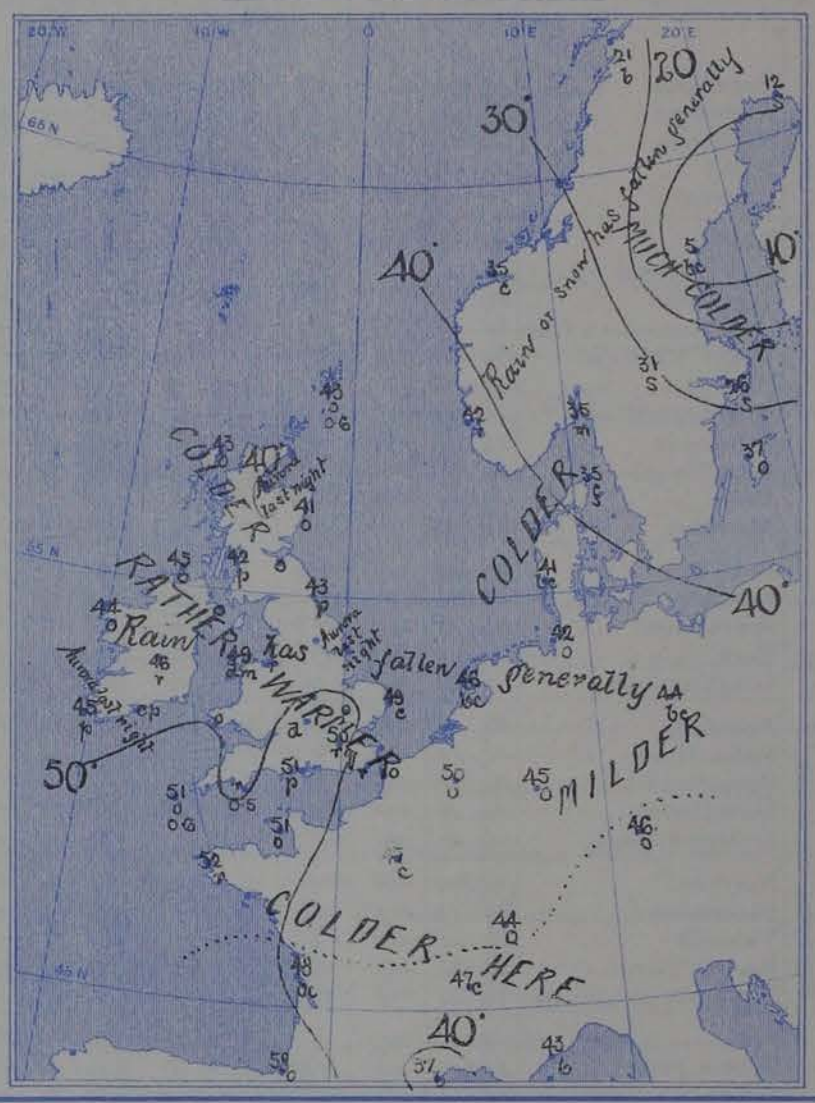
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1.65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·80	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.0 ins. to 30.1 ins. in the SE. of France.
Lowest 28.7 ins. and less in a deep depression with its centre off the W. of Ireland.
Gradients steep or rather so over England and the neighbouring parts of the Continent moderate or slight elsewhere.
Barometer falling in most parts of our Islands and France, rising in Scandinavia, Denmark and Germany.

TEMPERATURE

Highest 58° at Biarritz, 52° at Brest, and 51° at Scilly, Jersey, Hurst Castle and Cambridge.
Lowest 5° at Hernösand, 12° at Haparanda, 21° at Bodo, & 26° at Stockholm; lowest in our Islands 39° at Nairn.
During yesterday the thermometer rose to 50° or slightly above it in many parts of Gt. Britain, and also in the S. of Ireland.

WIND

Strong to a gale from the S.wd. or SW.wd. over the southern parts of our Islands, and the W. and N. of France; moderate to strong from the same quarters over the Netherlands, Germany and central France.
Light from the SE.wd. in Scotland, and from the E.wd. in the west of Norway, W.ly in Denmark; S. in the south of Norway, variable in Sweden.

WEATHER

Cloudy or dull over W.rn Europe generally, with rain or passing showers in many parts of Ireland and England, as well as at Brest and Skudesnaes. Snow was falling at several of the Swedish stations.
Fine in the extreme S. of France, as well as in some parts of Denmark & N. Germany.
Rain fell yesterday in most parts of W.rn Europe, the largest amounts being 0.6 in at Sumburgh Hd. and Scilly, and 0.5 in. at Prawle Pt. Aurora was seen last night in the N. of Scotland, and also at Spurn Hd. and Valencia (Ireland).

SEA

High at Scilly and Biarritz, and rough or rather so on most of our S.rn and the French coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the W. of Ireland seems likely to move N.wds. and to occasion some increase of wind from the SE.wd. on our N.rn coasts. Squally, showery weather will probably continue for a time over the United Kingdom generally.

FORECASTS

For the 24 hours ending at NOON on 14th FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE.ly winds, increasing in force; cloudy, squally, some rain.
1 SCOTLAND EAST	
2 ENGLAND N.E.	S.ly winds, increasing in force; squally, rain at times.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	S.ly to SW.ly gales and strong winds; squally, showery.
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No.s 0 and 1.
7 ENGLAND N.W.	S.ly to SW.ly or W.ly gales and strong winds; squally, showery.
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	The SOUTH CONE is still flying on all coasts.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.02	43	42	SSE	4	o	3
Sumburgh Head							
Stornoway	28.84	48	47	W	2	od	2
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	28.97	45	43	NW	5	bc	3
Belmullet	29.15	46	44	WSW	1	b	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	29.60	49	45	SE	4	ofp	4
Hurst Castle ...							
Dungeness ...	29.55	49	48	SW	8	c	7
North Foreland							
London (Westminster)							*
Yarmouth ...							
Rochefort ...	29.95	55	53	WSW	5	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 5TH TO 11TH FEB.

At the commencement of the week, when barometric pressure was highest over S.rn Europe, the weather in the NW.rn and N.rn countries was affected by several depressions moving eastwards. These occasioned considerable variations in the winds, both as regards direction and force, and extremely unsettled weather, with frequent falls of rain or snow in most places.

The disturbances soon passed away, however, or dispersed, and on the 5th and 6th a new high pressure system which had formed over the N. of our Islands moved SE.wds across the North Sea and central Europe, and eventually joined the anticyclone over S.rn Europe. Still later another area of high readings was developed over Sweden and N.rn Russia, and for the remainder of the week pressure was high over the N.rn, E.rn and S.rn parts of Europe generally. In the W.rn countries the weather was affected by a series of depressions moving N.wd in quick succession along our own extreme W. coasts. These occasioned frequent gales from the S.wd or SW.wd in west and south of our Islands, with a heavy rainfall in Ireland and Wales, fresh to strong winds from similar quarters and less heavy rains being experienced in many other parts of W.rn Europe. Temperature was high, especially on the 10th when readings ranging between 60° and 65° were recorded in many parts of England; in London the thermometer rose to 66°, this being the highest point reached in February for more than 50 years past. At the close of the week pressure over N.rn Europe was giving way, and the Atlantic depressions were beginning to spread further E.wd.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Tuesday, 14th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
Scandinavia	Haparanda ...	29.71	1	NE	2	b	29.73	+.23	5	4	-7	N	2	b	*	b	*	12	-2	-
	Hernösand ...	29.75	10	Z	0	0	29.84	+.29	13	13	+8	N	2	S	*	0	*	23	3	-
	Stockholm ...	29.70	24	NNE	2	0	29.75	+.34	27	26	+1	E	2	S	*	0	*	37	21	0.08
	Wisby	29.62	34	NNW	4	0	29.75	+.35	34	34	-3	S	4	r	*	0	*	37	19	-
	Karlstad ...	29.61	26	NE	4	0	29.84	+.18	32	31	+1	SE	6	0	*	0, S	*	*	*	0.12
	Bodö	29.69	21	E	4	b	29.69	+.14	23	20	+2	E	5	b	1	b	*	23	18	-
	Christiansund ...	29.28	38	ENE	4	0	29.19	+.01	42	38	+7	WSW	4	0	4	0	*	42	35	-
	Skudesnaes ...	29.18	44	S	6	0	29.13	-.07	43	42	+1	SE	4	r	4	f0	*	45	41	*
	Færder (Christiania Fjord)	29.50	36	S	3	f	29.39	+.11	40	40	+2	S	4	m	3	f	*	40	36	0.28
	Skagen (The Scaw)	29.49	39	SE	3	m	29.47	+.15	40	39	+3	SSW	3	m	0	m	*	41	36	0.20
	Fanö	29.40	44	SW	3	b	29.57	+.16	43	41	+2	W	4	b	*	b	*	45	39	0.16
British Islands	Sumburgh Head	28.84	43	E	4	+	28.90	-.11	42	40	-1	S	3	c	6	0, r	*	45	40	0.48
	Stornoway ...	28.61	46	SE	3	+	28.71	-.14	41	40	-2	SSW	6	r	6	c, 0, r	1.2	48	36	0.30
	Wick	28.69	43	S	4	+	28.87	-.11	42	39	-1	S	6	bcu	4	r	*	44	39	0.20
	Nairn	28.68	43	Z	0	0	28.89	-.08	40	37	+1	S	2	bc	1	0	*	45	35	0.01
	Aberdeen ...	28.75	44	SSE	5	ogtq	28.99	-.06	39	38	-2	SSW	6	cqu	5	orq	0.0	45	37	0.26
	Leith	29.01	44	SSW	3	0	28.99	+.01	38	37	-4	SW	3	cm	*	0	*	51	37	0.07
	Shields	28.91	44	SSW	2	c	29.06	-.04	40	39	-3	S	6	p	3	d, o m, c	*	51	38	0.05
	Spurn Head ...	29.04	47	S	6	b	29.28	+.11	45	43	-1	SSW	7	b	6	q p, l	*	51	41	0.07
	York	29.00	47	S	3	bc	29.23	+.11	45	42	0	SSW	5	op	*	opf. bc. f	0.7	50	39	0.08
	Loughborough ...	29.06	48	SSW	4	c	29.47	+.30	44	41	-6	SSW	7	bq	*	q p. t l h	*	52	41	0.32
	Ardrossan ...	28.74	46	SSE	4	bfm	29.04	+.15	43	42	+1	SW	4	c	4	c p m	*	47	41	0.11
	Malin Head ...	28.62	43	SW	6	bc	28.95	+.23	43	41	-2	WSW	5	cp	3	bc	*	45	38	0.02
	Belmullet ...	29.68	43	SW	4	bcf	29.15	+.45	44	41	0	W	5	ofp	*	opf. bc. f	*	44	40	0.30
	Donaghadee ...	28.76	44	SW	6	cq	29.10	+.25	40	39	-8	W	4	bc	3	cq	*	53	38	0.04
	Liverpool (Bidston)	28.94	46	S	1	cf	29.25	+.24	44	41	-4	SW	6	b	5	cf	*	52	39	0.25
	Holyhead ...	28.89	45	S	5	0	29.24	+.31	44	42	-5	WSW	6	bc	5	t. c q. o	*	49	41	0.22
	Parsonstown ...	28.82	43	S	2	b	29.23	+.50	39	38	-7	SW	1	bc	*	b	3.8	48	38	0.10
	Valencia ...	28.83	44	SSW	5	0	29.28	+.57	42	40	-3	S	2	bc	5	c. 0	3.9	48	40	0.20
	Roche's Point ..	28.91	46	WSW	5	bc	29.33	+.55	43	42	-5	WSW	3	c	5	p c. b h t q	*	49	40	0.42
	Pembroke (St. Ann's Hd.)	28.93	44	W	5	+	29.38	+.43	47	45	-3	WSW	6	b	6	t. q	2.2	50	40	0.53
	Scilly	29.13	44	WSW	8	c	29.41	+.42	47	45	-4	SSW	2	c	7	t q. o. c	2.3	52	40	0.28
	Prawle Point ...	29.13	46	SW	8	c	29.51	+.34	47	45	-2	WSW	3	c	4	q h f. l	*	52	42	0.13
	Jersey (St. Aubin's)	29.35	53	SSW	7	bc	29.59	+.22	48	47	-3	S	4	cq	5	o. bc. cf	*	53	45	0.04
	Hurst Castle ...	29.22	51	SSW	7	bcqm	29.55	+.28	48	46	-3	SW	4	cm	3	bcm. qm	*	52	44	0.01
	Dungeness ...	29.35	49	SSW	5	bc	29.58	+.1[illegible]	48	48	-1	SSW	6	oq	5	cq. bc	*	52	47	—
	North Foreland																*			
	London (Brixton) ...	29.23	50	SW	6	cu	29.54	+.19	45	43	-5	S	3	bc	*	oqf. c	0.2	54	44	0.02
	Oxford	29.16	47	SW	8	0	29.49	+.29	45	43	-5	SW	3	oh	*	cfq	*	53	43	0.05
	Cambridge ...	29.19	49	SSW	5	0	29.49	+.21	44	42	-7	SW	4	b	*	0	1.2	56	42	—
	Yarmouth ...	29.21	49	SSW	5	bc	29.51	+.19	46	44	-3	SSW	5	bc	4	cq. bc	*	52	43	—
Germany & Holland	Cuxhaven ...	29.49	48	SSW	4	0	29.67	+.21	44	42	+2	SSW	4	cf	*	of	*	48	42	0.04
	Berlin	29.71	47	SW	3	0	29.84	+.22	45	44	+1	SW	1	c	*	0	*	50	45	0.08
	Wiesbaden ...	*	*	*	*	*	29.88	+.11	43	42	-2	SW	2	bc	*	*	*	54	43	—
	Munich	29.86	42	SE	4	b	29.99	+.02	37	35	-9	SSW	3	bc	*	b	*	57	36	—
	The Helder ...	29.36	50	SSW	5	bc	29.58	+.16	45	43	-1	SSW	4	b	2	bc	*	52	45	—
Belgium	Brussels ...	*	*	*	*	*	29.73	+.12	48	45	-2	SSW	4	o	*		*	53	46	—
	Cape Gris Nez ...	?	48	SW	6	bc	?	?	47	45		SW	5	m	4	bc	*	53	45	0.04
	Paris	29.66	54	S	4	b	29.76	+.03	46	43	-1	SSE	2	o	*	c. b	*	59	46	—
	Brest	29.37	50	WSW	6	o	29.52	+.23	47	46	-5	WSW	1	c	6	o	*	53	41	0.32
	Lorient	29.49	?	SW	8	o	29.58		49	47		SW	3	o	5	o	*	57	45	0.08
France	Rochefort ...	29.73	53	WSW	4	o	29.69	0.0	48	46	o	SE	2	o	*	o	*	57	45	0.08
	Belfort	29.75	54	WSW	4	o	29.89	-.06	46	40	+2	W	3	b	*	o	*	62	44	—
	Lyons	29.86	54	S	5	c	29.88	-.09	50	43	+3	S	3	c	*	c	*	60	47	—
	Nice	30.10	49	SW	2	o	30.11	+.01	44	42	+1	E	5	bc	2	o	*	57	41	—
	Perpignan ...	29.85	51	W	2	o	29.85	-.14	51	47	+14	SE	3	bc	*	o	*	59	32	—
	Biarritz ...	29.74	62	SW	6	o	29.59	-.19	53	50	-5	N	2	o	8	o	*	64	52	—
Peninsula	Corunna ...																*			
	Lisbon	29.85	53	Z	0	0	29.63	-.38	52	49	-3	SSW	5	o	*		*	57	48	0.32
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster*

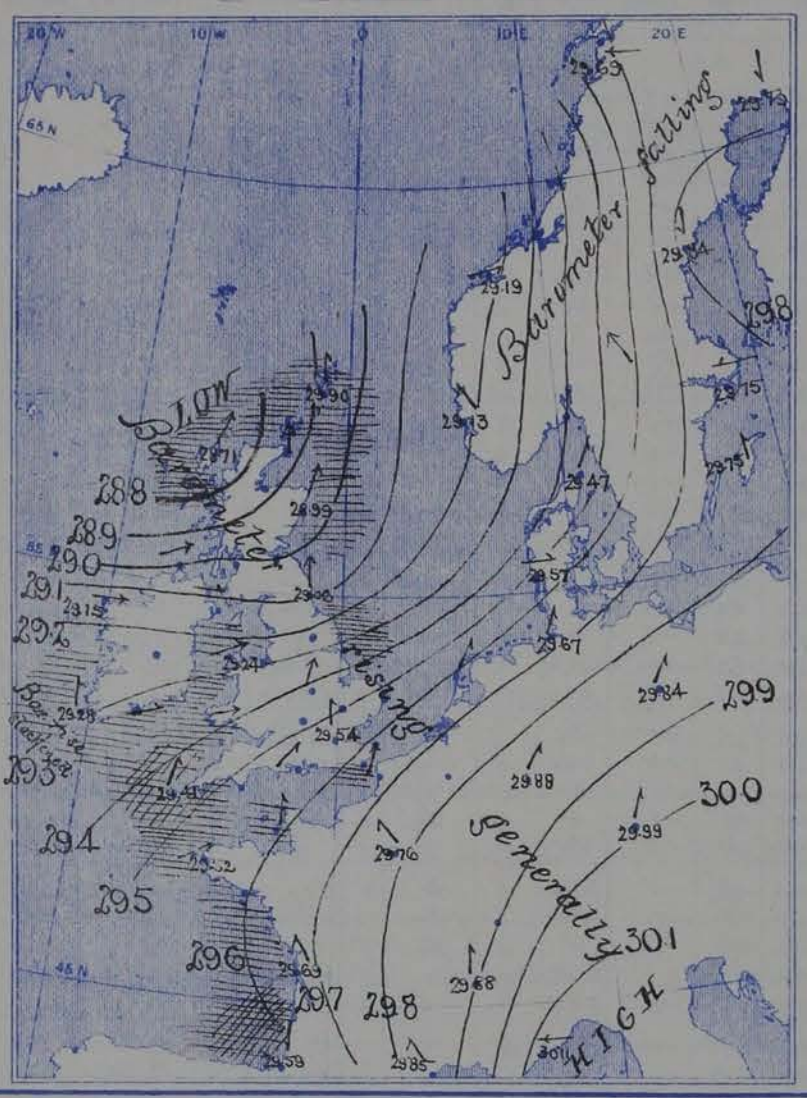
Bright Sunshine yesterday Southport 1.3 hrs;

WEATHER CHARTS

FOR Tuesday, 14th February, 1899.

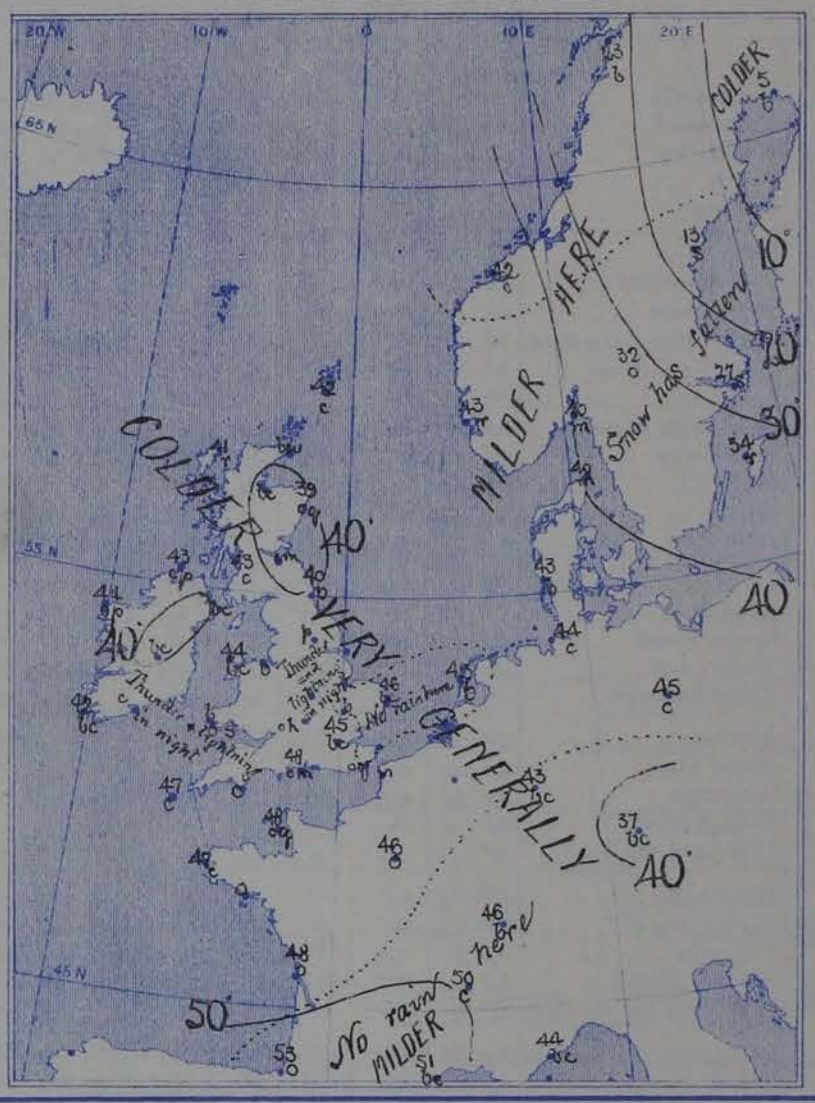
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1·65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.11 ins. at Nice, and exceeding 29.7 ins. over the S.rn and E.rn parts of France generally; (2) 29.84 ins. at Hernösand.
Lowest below 28.8 ins. over the NW. of Scotland.
Gradients still steep over the North Sea.
Barometer rising at most of our W.rn and S.rn stations, but at Valencia the rise has slackened.

TEMPERATURE

Highest – above 50° in the S. and SW. of France; 48° to 42° over the S.rn and SW.rn parts of our Islands, 43° at Skudesnaes.
Lowest (1) 39° at Aberdeen, 38° at Leith, 40° at Shields. (2) 5° at Haparanda, 13° at Hernösand, 27° at Stockholm.
The maxima recorded yesterday varied in our Islands from 56° at Cambridge to 51° at Leith, – and to 44° at Wick and Belmullet.

WIND

S.ly in the north and east of Scotland, and strong; S.ly to SW.ly over England, but W.ly over the greater part of Ireland. At Valencia, however, it had backed to S.
Strong gales from SSW. were felt in the English Channel and on our extreme N.E. coasts last night.

WEATHER

Changeable (squally and showery) generally, with hail at Oxford. In Ireland it was temporarily finer, but not settled; lightning has been seen in several places.
Rain has fallen at times all over our Islands. Bright Sunshine recorded yesterday amounted to nearly 4 hours in the south of Ireland and to more than 2 hrs. in the W. of England; elsewhere it was very slight.

SEA

High off our SW. coasts; rough in the Irish and English Channels, and off the N. of Scotland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Yesterday's disturbances have passed off but the weather appears far from being settled. The extreme W. and NW coasts have again been warned.

FORECASTS

For the 24 hours ending at NOON on 15th FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW.ly and S.ly winds, increasing at night; rain at times, milder.
1 SCOTLAND EAST	S.ly and SW.ly winds, strong to moderate. Showery to fair. Cooler at first, warmer.
2 ENGLAND N.E.	
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	SW.ly breezes, moderate; cool, showery, then more S.ly and increasing, warmer.
6 SCOTLAND WEST	Wind backing to the S.rn and increasing with rain; unsettled.
7 ENGLAND N.W.	
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	Warnings have been issued this morning to districts 0, 6, 9 and 10.

Note. – The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.81	42	42	S	4	f	4
Sumburgh Head	29.00	44	43	ESE	3	o	5
Stornoway	28.73	47	46	SE	3	o	3
Aberdeen	28.85	43	43	SSE	3	org	3
Shields	28.90	50	49	SSW	2	om	2
Ardrossan	28.72	47	47	SE	5	cmp	4
Malin Head ...	28.59	43	42	S	6	bc	3
Belmullet	28.63	43	43	SSW	3	op	*
Holyhead	28.86	49	47	SW	7	cq	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	28.78	48	43	SW	5	c	6
Scilly	28.93	50	48	S	8	o	7
Jersey	29.04	53	49	SSW	7	o	6
Hurst Castle ...	29.23	51	48	SSW	5	bcm	4
Dungeness ...	29.32	50	49	SSW	7	cq	6
North Foreland							
London (Westminster)	29.21	54	50	SSW	6	o	*
Yarmouth ...	29.23	51	47	SSW	6	cq	4
Rochefort ...	29.68	55	52	SW	5	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental information not received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky ; c. detached clouds ; d. drizzling rain ; f. fog ; g. dark, gloomy ; h. hail ; l. lightning ; m. misty (hazy) ; o. overcast ; p. passing showers ; q. squally ; r. rain ; s. snow ; t. thunder ; u. ugly, threatening ; v. visibility, unusual transparency ; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 15th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.84	-13	N	0	b	29.73	.00	0	0	-5	NE	2	S	*	b	*	7	-13	0.08
	Hernösand ...	29.72	17	N	2	s	29.68	-.16	17	16	+4	N	2	0	*	s	*	18	10	0.16
	Stockholm ...	29.75	37	SSW	2	0	29.78	+.03	38	37	+11	SW	2	0	*	0	*	38	21	0.12
	Wisby	29.85	40	WSW	4	b	29.89	+.14	39	38	+5	WSW	4	b	*	b	*	39	30	0.08
	Karlstad ...	29.63	38	SW	4	0	29.77	+.23	37	36	+5	WSW	2	b	*	r.0	*	*	*	0.08
	Bodö	29.53	23	E	6	b	29.60	-.09	19	18	-4	E	4	b	1	b	*	23	18	-
	Christiansund ...	29.32	40	WSW	3	0	29.54	+.35	40	37	-2	WSW	3	0	4	0	*	42	37	0.04
	Skudesnaes ...	29.48	43	S	4	0	29.64	+.51	42	41	-1	SSE	4	m	4	c.0	*	44	39	*
	Færder (Christiania Fjord)	29.52	41	SSW	5	m	29.74	+.35	37	37	-3	SSW	4	f	3	m	*	41	37	0.08
	Skagen (The Scaw)	29.64	42	SW	4	m	29.82	+.35	37	37	-3	SW	2	f	0	m	*	46	36	-
	Fanö	29.81	41	WSW	1	b	29.82	+.25	42	41	-1	SW	1	f	*	b	*	45	39	0.04
BRITISH ISLANDS.	Sumburgh Head	29.12	44	SSW	3	0	29.24	+.34	43	41	+1	S	4	bc	6	c.0	*	45	40	0.06
	Stornoway ...	29.03	44	WSW	4	0	29.21	+.50	44	43	+3	SW	4	0	4	c.rq.0	2.7	49	39	0.95
	Wick ...	29.17	45	S	4	bc	29.28	+.41	42	40	0	W	3	bc	1	bc	*	47	39	-
	Nairn	29.20	40	WSW	3	c	29.30	+.41	43	41	+3	WSW	2	bc	2	c	*	50	36	0.02
	Aberdeen ...	29.30	42	SW	5	bc	29.44	+.45	44	40	+5	SW	5	bcq	3	cq	3.2	49	38	-
	Leith	29.33	43	SW	3	b	29.50	+.51	43	40	+5	SW	3	bc	*	b	*	50	36	-
	Shields	29.47	45	S	4	b	29.60	+.54	40	39	0	SSW	2	cm	2	r.b	*	51	37	0.04
	Spurn Head ...	29.57	44	S	4	bc	29.69	+.41	43	42	-2	SSW	3	cw	3	bc.m	*	50	40	-
	York	29.53	47	S	3	b	29.68	+.45	39	39	-6	SSW	1	f	*	b	7.5	51	38	0.01
	Loughborough ...	29.59	46	SE	1	bc	29.73	+.26	43	42	-1	WSW	2	0	*	q.bc.0	*	53	41	-
	Ardrossan ...	29.30	46	S	5	b	29.54	+.50	44	44	+1	SSW	6	b	4	b	*	47	42	-
	Malin Head ...	29.14	44	SW	6	bcp	29.47	+.52	43	41	0	SW	5	bcm	3	bc.p	*	46	41	0.01
	Belmullet ...	29.24	44	SW	7	0.q.p	29.61	+.46	44	43	0	W	3	bc	*	cp.qp	*	48	40	0.14
	Donaghadee ...	29.34	44	SW	4	b	29.61	+.51	38	38	-2	WSW	5	bc	3	b	*	50	37	-
	Liverpool (Bidston)	29.53	45	SSW	2	0	29.70	+.45	43	40	-1	SSW	2	b	3	b	*	50	40	-
	Holyhead ...	29.47	48	SSW	4	cp	29.68	+.44	43	42	-1	WSW	2	bp	1	cp	*	49	42	0.12
	Parsonstown ...	29.38	44	S	1	b	29.68	+.45	35	35	-4	Z	0	c	*	b	?	49	34	-
	Valencia ...	29.44	46	SW	3	bc	29.71	+.43	37	36	-5	NE	1	bchp	5	bc	8.0	51	35	0.17
	Roche's Point ..	29.46	48	WSW	3	bcp	29.74	+.41	39	37	-4	NW	2	b	4	bcp	*	51	36	0.15
	Pembroke (St. Ann's Hd.)	29.51	48	SSW	4	b	29.74	+.36	46	44	-1	WSW	3	og	4	b	6.5	50	44	0.08
	Scilly	29.49	47	S	1	r	29.72	+.31	47	45	0	W	1	0	5	c.r	3.3	55	43	0.05
	Prawle Point ...	29.58	47	SSW	3	0	29.77	+.26	45	44	-2	W	3	cp	3	qp	*	49	44	0.34
	Jersey (St. Aubin's)	29.63	48	SE	4	og	29.82	+.23	45	45	-3	ESE	3	om	3	c.og	*	51	38	-
	Hurst Castle ...	29.61	48	S	2	0	29.80	+.25	47	46	-1	SSW	3	om	2	cm.om	*	50	46	-
	Dungeness ...	29.67	48	S	5	r	29.83	+.25	45	45	-3	SW	2	bc	1	c.r	*	49	39	0.06
	North Foreland																*			
	London (Brixton) ...	29.65	48	SW	3	bc	29.82	+.28	45	44	0	S	2	bc	*	oth.od.b	0.0	52	42	0.22
	Oxford	29.65	46	S	2	0	29.79	+.30	44	43	-1	SSW	3	cm	*	ph.o	*	51	43	0.08
	Cambridge ...	29.66	46	SSW	1	b	29.79	+.30	40	40	-4	SSW	2	o	*	c.b	1.8	53	38	-
	Yarmouth ...	29.83	47	S	3	bc	29.77	+.26	45	43	-1	SSW	3	bc	3	bc	*	51	40	-
GERMANY & HOLLAND.	Cuxhaven ...	29.80	46	SSW	2	bc	29.77	+.10	41	41	-3	SSE	1	0	*	bc	*	48	39	-
	Berlin	29.92	48	SSE	1	b	29.90	+.06	40	38	-5	SE	2	b	*	b	*	55	39	-
	Wiesbaden ...	*	*	*	*	*	29.97	+.09	43	42	0	SE	1	c	*	*	*	54	43	0.20
	Munich	29.93	40	SE	2	b	30.05	+.06	35	33	-2	W	3	c	*	b	*	55	34	-
	The Helder ...	29.74	45	SSW	1	b	29.72	+.14	44	43	-1	SSW	2	0	2	b	*	48	43	0.12
BELGIUM.	Brussels ...	*	*	*	*	*	29.86	+.13	46	45	-2	SW	5	0	*	0	*	52	44	0.16
	Cape Gris Nez ...	?	49	SE	3	0	?	?	47	45	0	W	1	0	1	0	*	55	43	0.12
	Paris	29.73	49	ESE	1	bc	29.90	+.14	47	46	+1	SSW	3	bc	*	bc	*	54	45	0.08
	Brest	29.57	50	SSE	2	0	29.75	+.23	47	46	0	ESE	2	0	5	0	*	54	45	-
	Lorient																*			
FRANCE &	Rochefort ...	29.62	52	SSE	5	c	29.78	+.09	46	45	-2	SE	3	bc	*	bc.c	*	52	41	0.20
	Belfort	29.82	51	NE	4	0	29.99	+.10	47	39	+1	W	1	0	*	0	*	59	37	-
	Lyons	29.72	54	S	4	0	30.00	+.12	52	44	+2	S	5	0	*	0	*	58	50	-
	Nice	30.07	51	E	7	b	30.15	+.04	44	38	0	ENE	5	c	4	b	*	55	43	-
	Perpignan ...	29.88	54	SE	3	0	29.93	+.08	52	52	+1	SE	2	b	*	0	*	59	51	-
	Biarritz ...	29.63	56	SSW	4	0	29.72	+.13	49	43	-4	ESE	2	0	6	0	*	66	46	-
PENINSULA.	Corunna ...																*			
	Lisbon														*		*			
	Azores (P. Delgada)	30.14	51	NW	4	r	30.11	+.18	52	48	+5	NW	3	0	2	r	*	59	48	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

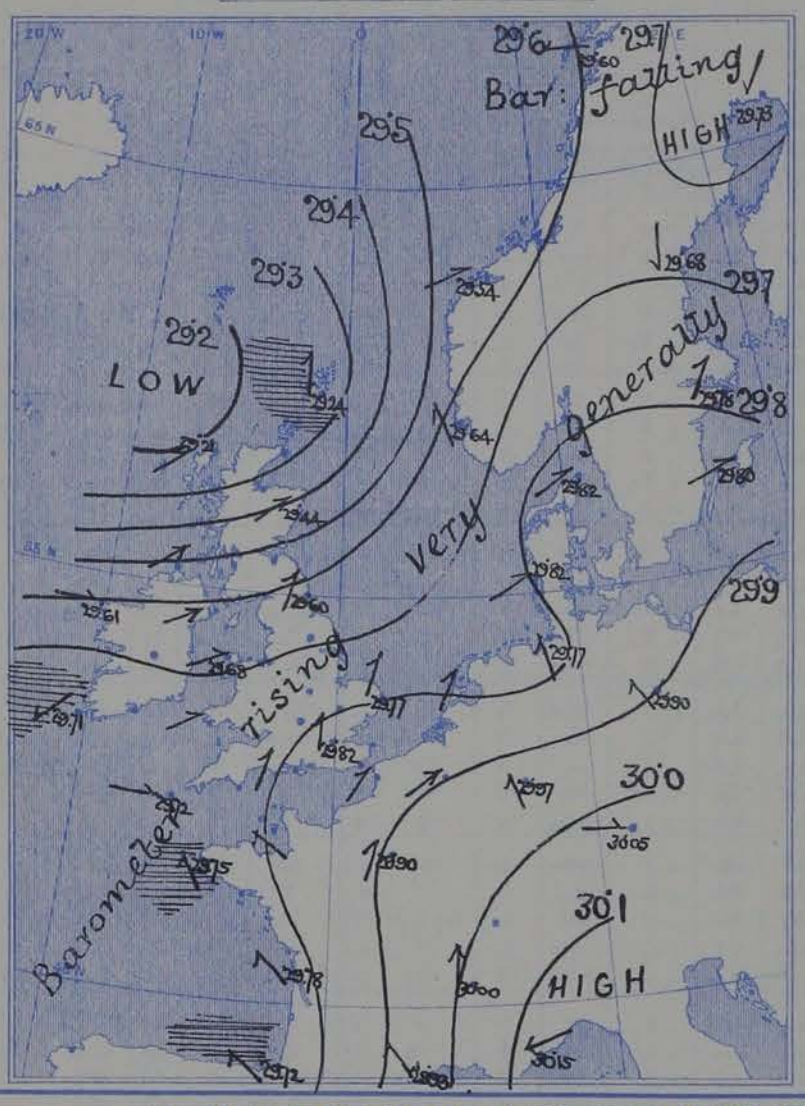
Bright Sunshine yesterday Southport. 7·8 hrs;

WEATHER CHARTS

FOR WEDNESDAY, 15TH FEBRUARY, 1899.

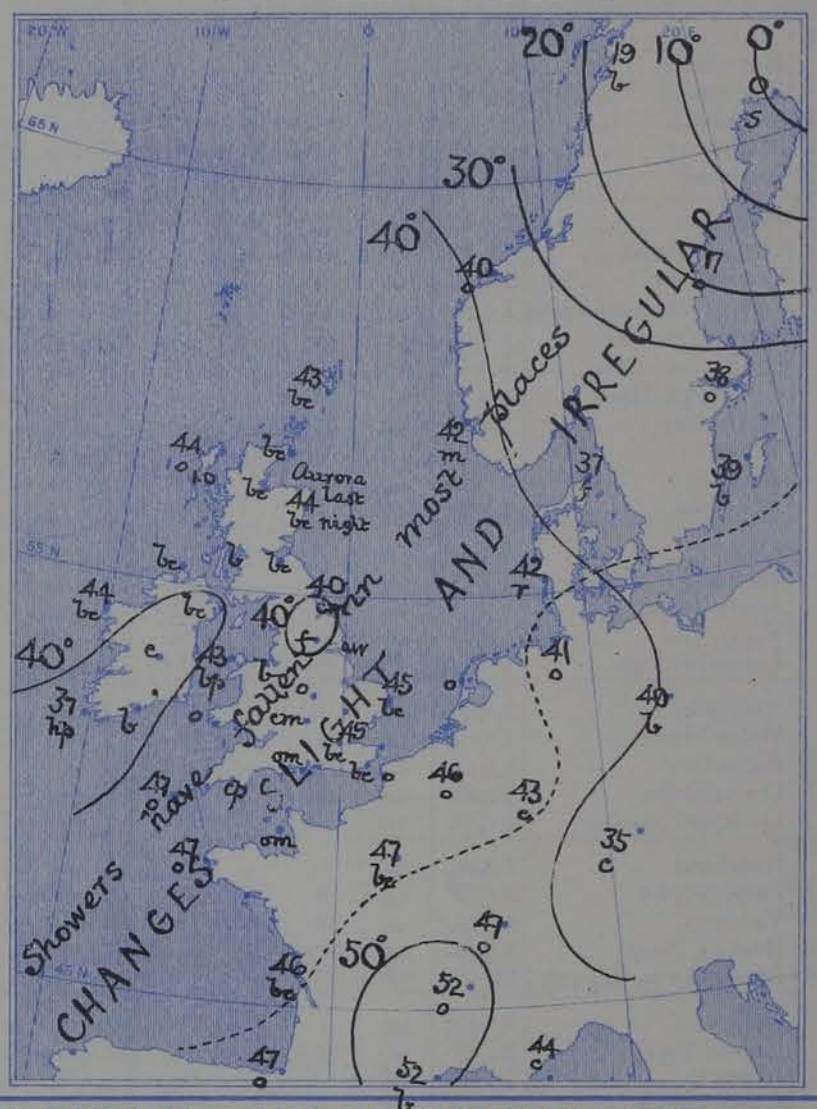
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1.65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30.15 ins. at Nice, and exceeding 29.8 ins. over nearly the whole of France; (2) 29.7 ins. and more over the N. of Sweden.
Lowest 29.3 ins. and less in the N. of Scotland, 29.21 ins. at Stornoway.
Gradients moderate over our N^rn. districts, slight elsewhere. Barometer rising except in the N. of Norway and Sweden where a fall had set in (Scilly reading at 6 pm was wrong)

TEMPERATURE

Highest 52° at Perpignan, 49° to 45° in the W. of France and the shores of the English Channel.
Lowest (1) 0°F. (zero) at Haparanda, 17° at Hernösand, 19° at Christiansund, 35° to 39° over the S^rn. parts of Ireland, 39° at York, 38° at Donaghadee.
The maxima recorded at the English stations yesterday were 55° at Scilly, and 52° to 50° in many other places. At Paris the maximum was 54°, at Berlin 55°, at Belfort and Perpignan 59, at Biarritz 66°.

WIND

Moderate from the SW^rly at the more northern of our stations, light and variable (though chiefly S^rly) in the south and southwest. In the west and north of France it was mainly SE^rly, and moderate.

WEATHER

Improving generally, though not at all settled. Showers were reported in many places, clear skies in others. Aurora was seen at Aberdeen last night. Solar and lunar halos in many places, hail in the south and southeast of London.
Bright sunshine recorded yesterday amounted to 8 hrs. at Valencia (Ireland), 7.5 hrs. in York, but was absent in the SE. of England.

SEA

Still rough at Valencia, Scilly and over the Bay of Biscay; going down elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather seems to be improving in most places; there is no new depression menacing our coasts at present. Signals have all been lowered.

FORECASTS

For the 24 hours ending at NOON on 16th. FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW^rly winds, falling light; some showers, bright intervals; colder.
1 SCOTLAND EAST	
2 ENGLAND N.E.	
3 ENGLAND EAST	Light and varying winds; slight showers, bright intervals; colder.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No. 0 to 2.
7 ENGLAND N.W.	
8 ENGLAND S.W.	Same as No. 3 to 5.
9 IRELAND NORTH	Same as No. 0 to 2.
10 IRELAND SOUTH	Light variable winds; some showers.
WARNINGS	At 10.35 am. today to districts 0, 6, 9 and 10. Lower Cone.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.32	44	42	SSW	4	c	5
Sumburgh Head	29.01	43	41	SSW	4	c	6
Stornoway	28.91	47	46	W	5	c	5
Aberdeen	29.15	44	41	SW	5	cqu	5
Shields	29.36	50	45	SSW	5	b	2
Ardrossan	29.26	47	46	S	5	b	4
Malin Head ...	29.15	46	42	S	6	bc	4
Belmullet	29.22	47	45	WSW	5	cp	*
Holyhead	29.43	47	45	SW	5	cp	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.38	49	44	SW	3	bc	5
Scilly	29.77	54	51	S	2	c	6
Jersey	29.63	50	49	SSE	4	c	4
Hurst Castle ...	29.61	50	49	SSW	3	cm	3
Dungeness ...	29.66	49	48	SSW	5	c	5
North Foreland							
London (Westminster)	29.63	52	49	SSW	4	o	*
Yarmouth ...	29.60	50	47	SSW	5	bc	4
Rochefort ...	29.65	52	50	S	3	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental information not received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
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DAILY WEATHER REPORT

for 8 a.m. on Thursday, 16th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.75	8	N	2	0	29.81	+.08	0	-1	0	N	2	c	#	0	#	9	-18	0.04
	Hernösand ...	29.75	18	Z	0	bc	29.76	+.08	14	14	-3	Z	0	f	#	bc	#	28	14	-
	Stockholm ...	29.82	34	SW	2	0	29.82	+.04	33	33	-5	SW	2	f	#	0	#	38	32	-
	Wisby	29.83	39	SSW	4	c	29.87	-.02	34	34	-5	WNW	4	f	#	c	#	41	34	0.12
	Karlstad ...	29.81	33	SE	2	f	29.80	+.03	36	35	-1	SW	2	0	#	f.r	#	#	#	0.12
	Bodö	29.65	46	E	4	b	29.68	+.08	19	15	0	E	4	b	1	b	#	21	16	0.35
	Christiansund ...	29.57	40	WSW	3	c	29.56	+.02	36	?	-4	ESE	4	r	4	c	#	41	36	0.12
	Skudesnaes ...	29.56	42	S	4	0	29.76	+.12	41	41	-1	SSW	4	m	3	0	#	42	39	#
	Færder (Christiania Fjord)	29.78	35	S	2	f	29.78	+.04	37	37	0	SW	4	f	3	f	#	37	35	0.24
	Skagen (The Scaw)	29.82	41	SSW	1	m	29.86	+.04	40	39	+3	W	1	m	0	m	#	41	36	-
	Fanö	29.91	41	WSW	1	c	29.82	-.00	41	41	-1	S	1	f	#	c	#	45	37	0.74
BRITISH ISLANDS.	Sumburgh Head	29.33	44	WSW	4	r	29.54	+.30	42	40	-1	SW	3	c	5	r	#	46	39	0.15
	Stornoway ...	29.44	44	WSW	5	0	29.41	+.20	43	42	-1	SW	5	0	5	c.0	2.0	49	38	0.20
	Wick ...	29.47	42	W	3	bc	29.54	+.26	42	40	0	? NW	5	bc	2	bc	#	46	37	-
	Nairn	29.53	42	WSW	2	bc	29.55	+.25	39	37	-4	Z	0	bc	1	bc	#	48	33	-
	Aberdeen ...	29.61	42	SW	2	b	29.69	+.25	37	36	-7	S	3	bc	2	bc g.b	3.8	49	33	-
	Leith	29.66	43	SW	2	b	29.69	+.19	40	38	-3	S	1	bc	#	b	#	50	36	-
	Shields	29.73	46	SSW	3	cm	29.77	+.17	33	32	-7	SW	2	cm	2	c.cm	#	51	31	-
	Spurn Head ...	29.77	45	SSW	3	r	29.79	+.10	40	39	-3	WNW	4	b	3	r	#	49	40	0.33
	York	29.77	46	SSW	1	c	29.82	+.14	33	32	-6	N	1	b	#	0.c.r	0.0	48	31	0.03
	Loughborough ...	29.78	45	SSE	1	r	29.85	+.12	37	37	-6	W	2	0fw	#	c.ou.f	#	49	37	0.25
	Ardrossan ...	29.67	45	SSW	4	bc	29.66	+.12	43	43	-1	SSE	4	0	4	bc	#	46	41	-
	Malin Head ...	29.62	43	W	4	b	29.43	-.04	41	40	-2	S	7	or	4	bc.b	#	45	38	0.01
	Belmullet ...	29.69	44	SW	3	bc	29.49	-.12	48	48	+4	SSW	6	r	#	b.bc	#	48	44	0.10
	Donaghadee ...	29.69	41	SW	3	b	29.68	+.07	41	40	+3	SSW	5	bc	3	b	#	50	37	-
	Liverpool (Bidston)	29.77	46	Z	0	0	29.83	+.13	38	36	-5	SSW	1	b	1	bc.0	#	48	36	-
	Holyhead ...	29.74	44	SW	1	cm	29.77	+.09	44	42	+1	SW	3	cm	2	c	#	49	39	-
	Parsonstown ...	29.73	41	WSW	1	b	29.64	-.04	45	43	+10	SE	1	0	#	b	7.9	49	33	0.04
	Valencia ...	29.74	42	SW	2	bc	29.62	-.09	49	47	+12	S	6	gmr	5	bc	6.5	49	36	0.12
	Roche's Point ..	29.77	45	W	2	b	29.74	.00	48	47	+9	SW	5	up	4	b	#	50	38	0.04
	Pembroke (St. Ann's Hd.)	29.76	47	SW	1	0	29.83	+.09	47	46	+1	SW	4	0	4	0	0.0	48	45	-
	Scilly	29.75	45	S	1	0	29.87	+.15	47	44	0	SSW	3	c	5	or.0	0.0	50	41	0.07
	Prawle Point ...	29.76	44	WSW	1	r	29.93	+.16	41	40	-4	W	2	bc	2	or	#	49	39	0.75
	Jersey (St Aubin's)	29.77	50	ESE	3	0	29.97	+.15	39	38	-6	SSW	3	bcm	3	0	#	50	37	0.04
	Hurst Castle ...	29.77	48	SSE	1	0dpm	29.93	+.13	43	42	-4	WNW	1	bc	1	r.b	#	49	41	0.46
	Dungeness ...	29.85	47	S	3	0	29.88	+.05	42	42	-3	WNW	3	b	2	0	#	51	41	0.03
	North Foreland																#			
	London (Brixton) ...	29.83	47	SSW	2	0	29.89	+.07	39	38	-6	WSW	2	b	#	o.r.b	0.0	51	38	0.30
	Oxford	29.78	45	SW	2	r	29.91	+.12	37	37	-7	SW	1	m	#	bc.r.b	#	50	36	0.44
	Cambridge ...	29.82	47	SSE	2	r	29.87	+.08	39	39	-1	WSW	2	bm	#	c.r	1.4	51	38	0.31
	Yarmouth ...	29.82	48	SSW	4	d	29.79	+.02	43	42	-2	WNW	3	bm	3	c.d	#	51	41	0.33
GERMANY & HOLLAND.	Cuxhaven ...	29.91	43	W	2	0	29.79	+.02	41	41	0	E	3	r	#	0.f	#	46	39	0.39
	Berlin	29.98	50	W	3	c	29.97	+.07	42	41	+2	SE	2	0	#	c	#	54	40	-
	Wiesbaden ...	#	#	#	#	#	29.95	-.02	41	39	-2	Z	0	0	#	#	#	57	37	-
	Munich... ..	30.15	41	E	3	b	30.09	+.04	35	?	0	S	3	b	#	b	#	55	32	-
	The Helder ...	29.91	44	SW	2	0	29.63	-.09	46	45	+2	SSW	3	0	1	0	#	48	43	0.35
BELGIUM.	Brussels ...	#	#	#	#	#	29.83	-.03	46	45	0	WSW	7	c	#	0	#	54	45	0.08
	Cape Gris Nez...	?	48	S	2	m	?	?	45	42	-2	NW	5	0	5	m	#	52	41	0.08
	Paris	29.93	53	SE	2	bc	29.95	+.05	46	45	-1	SSW	2	bc	#	bc	#	60	45	-
	Brest	29.75	50	S	2	r	29.94	+.19	45	44	-2	SE	1	b	2	r	#	52	39	0.12
	Lorient... ...																#			
FRANCE &	Rochefort ...	29.86	55	S	2	bc	29.96	+.18	48	47	+2	SSE	3	bc	#	bc	#	61	45	-
	Belfort	30.04	54	W	1	b	30.06	+.07	39	36	-8	W	2	c	#	b	#	61	36	-
	Lyons	30.08	53	S	3	b	30.11	+.11	52	48	0	SSE	3	b	#	b	#	61	51	-
	Nice	30.20	53	E	8	b	30.27	+.12	44	41	0	E	2	b	3	b	#	57	43	-
	Perpignan ...	30.10	54	SE	3	bc	30.15	+.22	47	47	-5	NW	1	b	#	bc	#	63	46	-
	Biarritz ...	29.80	57	E	3	c	29.91	+.19	50	46	+1	S	2	0	5	c	#	59	48	-
PENINSULA.	Corunna ...																#			
	Lisbon	29.74	54	NNE	3	r	29.87	+.29	50	49	-1	ESE	4	c	#	r	#	57	50	0.08
	Azores (P. Delgada)	30.02	56	W	3	bc	29.88	-.23	57	55	+5	WSW	3	m	3	bc	#	61	55	.

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

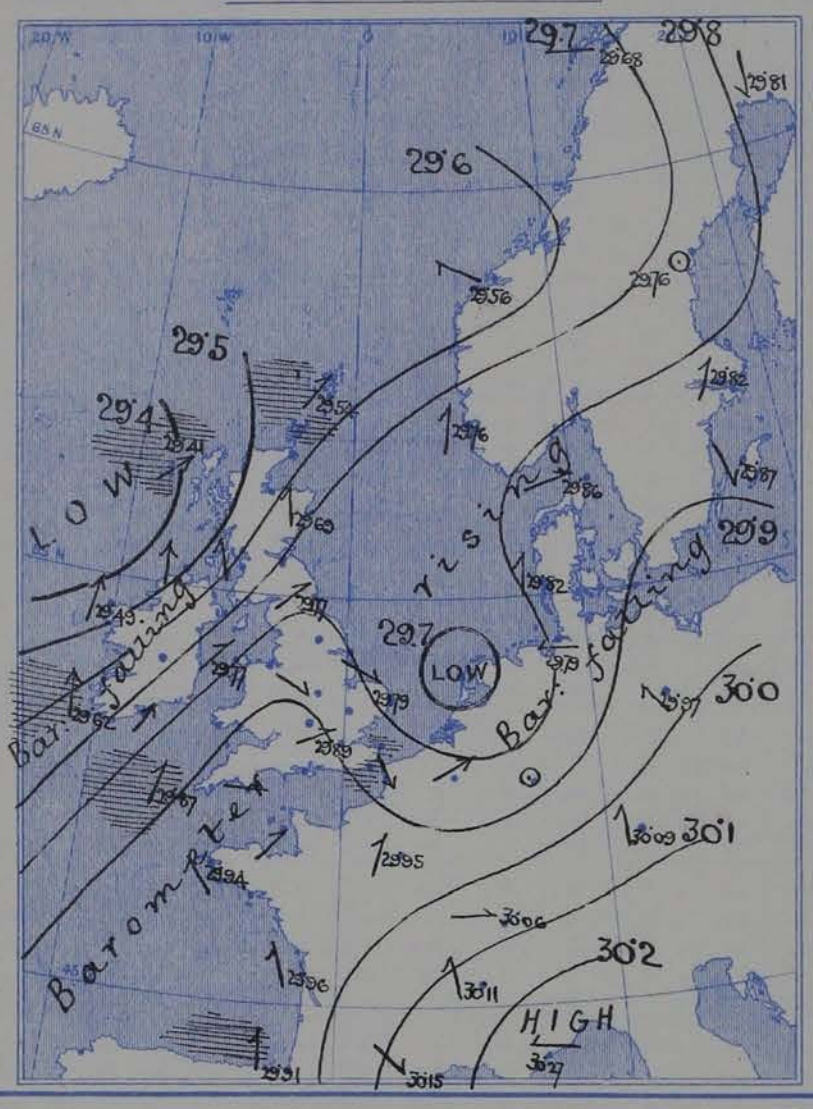
Bright Sunshine yesterday Southport..2.4 hrs;

WEATHER CHARTS

FOR Thursday, 16th February, 1899.

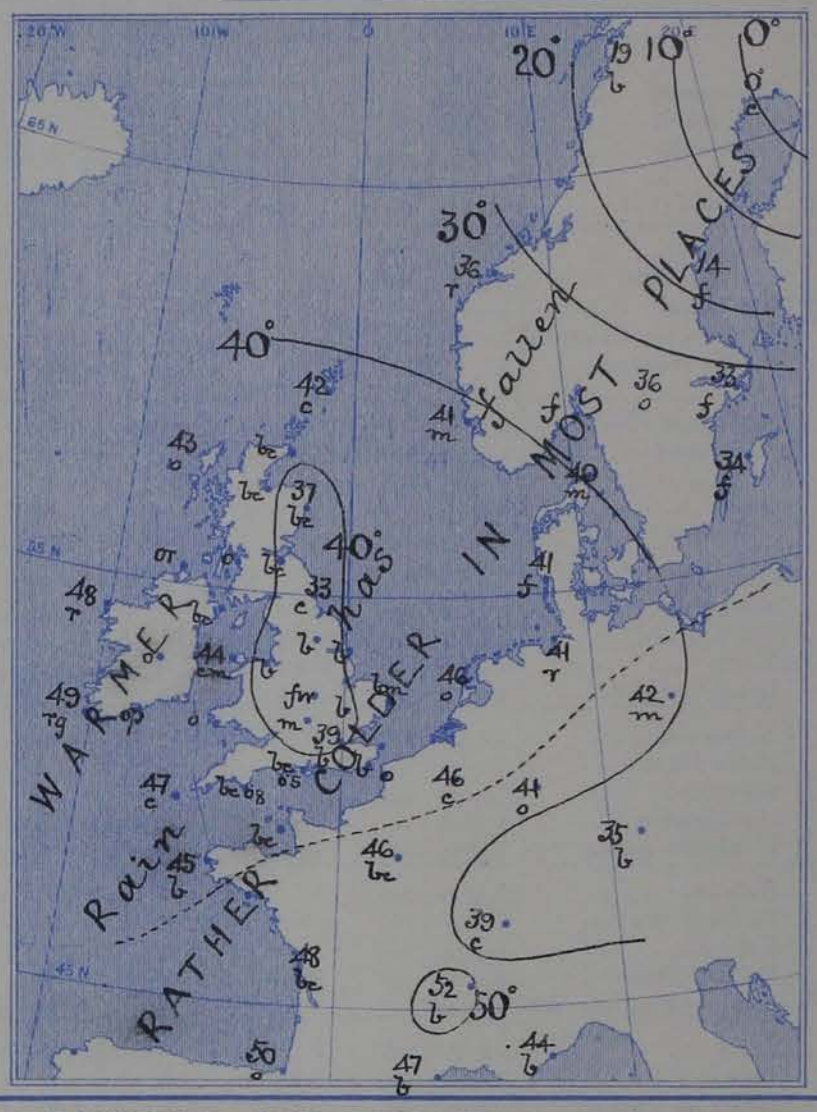
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 8 to 10* ; *Force 5 to 7* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 · 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.27 ins. at Nice, and exceeding 29.9 ins. over all the S.rn & E.rn parts of France & central Germany.
Lowest. Below 29.7 ins. in a small depression near the Helder, and below 29.5 ins. in the N.W. of our Islands.
Gradients becoming steep again over Ireland and Scotland.
Barometer has begun to fall fast again in the W, but rising at our S.E.rn stations.

TEMPERATURE

Highest 52° at Lyons, 50° at Biarritz, 49° at Valencia.
Lowest (1) 0°F. at Haparanda, 14° at Hernosand; 33° at Shields and York; 37° at Aberdeen & Oxford.
It rose to above 50° in many parts of Ireland and England yesterday, to 60° at Paris, 54° at Brussels and Berlin, and 63° at Perpignan.

WIND

S.ly and SW.ly again on our western and northern coasts, and increasing in force, with rain.
In the east of our Islands it was more W.ly to NW.ly and of little strength.

WEATHER

Rainy at many of our W.rn stations fine in the E. and S.E. and over France, misty and rainy in N. Germany.
A good deal of rain fell in the S.E. of England and in Holland last night.
Bright sunshine recorded yesterday was 7.9 hrs. at Parsonstown, 6.5 hrs. at Valencia, 3.8 hrs. at Aberdeen. In the S.E. of England there was little or none.

SEA

Rough at our most N.rn stations, at Valencia and Scilly, moderate on our NW. coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A new set of disturbances seems to be approaching Ireland from the SW.rd. The South Cone has been hoisted again in the W. and NW.

FORECASTS

For the 24 hours ending at NOON on 17TH FEB. 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
▼ 0 SCOTLAND NORTH	SW.ly and S.ly winds, showery, squally.	▼ 6 SCOTLAND WEST	S.ly and SW.ly winds, strong; a gale in places; rainy.
1 SCOTLAND EAST	SW.ly winds; fair to showery.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		▼ 9 IRELAND NORTH	
4 MIDLAND COUNTIES		▼ 10 IRELAND SOUTH	
5 ENGLAND SOUTH	W.ly and SW.ly breezes; fine, but not settled.	WARNINGS	At 10.30 am today to districts 0, 6, 9 and 10. Hoist South Cone.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.28	41	41	S	6	o	4
Sumburgh Head	29.30	45	42	SW	4	O	6
Stornoway	29.33	47	46	WSW	4	o	4
Aberdeen	29.52	48	43	SW	5	bcqf	3
Shields	29.70	49	46	SSW	3	c	2
Ardrossan	29.64	46	45	SSW	5	bc	4
Malin Head ...	29.60	45	42	W	5	bc	3
Belmullet	29.70	47	43	WSW	5	b	*
Holyhead ...	29.74	47	44	SW	3	cm	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.73	48	42	SSW	2	bc	5
Scilly	29.75	47	45	C	1	or	5
Jersey	29.84	46	45	ESE	3	O	3
Hurst Castle ...	29.82	48	47	SSE	2	m	2
Dungeness ...	29.88	47	47	S	3	O	2
North Foreland							
London (Westminster)	29.84	52	48	SSW	3	O	*
Yarmouth ...	29.82	51	48	SW	3	c	3
Rochefort ...	29.84	59	56	SSE	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and quiet all over S. and S.E. Europe, and much less disturbed over the British Isles and their neighbourhood than of late, but showers of rain and hail still reported from some of our SW^rn and W^rn stations; snow at Haparanda. A great deal of rain falling later in the S. & E. of England, and in Holland at night; and a fresh fall subsequently in the W. of Ireland.

Temperature in morning highest 64° at Algiers, and exceeding 50° at the Mediterranean stations generally, 47° at Brest and Scilly, 45° in London, 44° at Belmullet, Ardrossan and Stornoway. Lowest (1) 5°F (zero) at Haparanda, 13° at Karpsio, 27° at Moscow, 32° to 35° in S. Germany; (2) 35° at Parsondown, 37° at Valencia. Not touching 50° at most of the Scotch stations later, but slightly exceeding that value over many parts of England and Ireland, 60° at Paris, and 63° at Perpignan.

Wind E^ly and SE^ly over southern Europe, W^ly to S^ly over most of the northern countries, and of moderate force; falling lighter in the north of the United Kingdom later, and becoming SW^ly in Ireland.

Barometer highest 30.2 ins. and more to 30.0 ins. over the whole of SE^rn and E^rn Europe. Lowest 29.3 ins. over the N^rn parts of Scotland and its neighbourhood. Some irregularity observable off our SW. coasts. Little change in our Islands later, but apparently a local fall occurring over the NW. of France.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

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N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Friday, 17th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.95	-1	N	2	0	30.10	+.29	-18	-18	-18	N	2	f	#	0	#	7	-18	-
	Hernösand ...	29.94	17	E	0	f	30.09	+.33	18	17	+4	E	0	f	#	f	#	23	10	-
	Stockholm ...	29.90	37	W	2	0	30.07	+.25	35	34	+2	E	0	0	#	0	#	39	32	-
	Wisby	29.95	38	WSW	4	0	30.12	+.25	36	35	+2	NNW	4	0	#	0	#	35	32	-
	Karlstad ..														#		#	#	#	
	Bodö	29.79	21	E	4	b	29.88	+.20	18	15	-1	E	4	b	1	b	#	21	16	-
	Christiansund ...	29.79	39	ESE	3	0	29.81	+.25	39	36	+3	ESE	4	r	5	0	#	41	36	0.08
	Skudesnaes ...	29.59	40	S	4	0	29.98	+.22	42	41	+1	SSE	6	r	4	0	#	43	39	#
	Færder (Christiania Fjord)	29.90	34	W	2	f	30.04	+.26	35	35	-2	S	1	m	2	f	#	37	32	0.34
	Skagen (The Scaw)	29.99	36	W	2	m	30.13	+.27	39	39	-1	WSW	2	m	0	m	#	40	34	?1.96
	Fanö	30.06	42	N	1	c	30.19	+.37	39	39	-2	[illegible]	0	f	#	c	#	45	37	0.12
BRITISH ISLANDS.	Sumburgh Head	29.51	43	SSW	4	r	29.69	+.15	45	44	+3	S	1	0	5	o,r	#	48	42	0.14
	Stornoway ...	29.39	48	SW	8	0	29.60	+.19	46	45	+3	SSW	4	r	4	or	0.0	48	40	0.35
	Wick	29.53	44	S	4	c	29.67	+.14	45	43	+3	S	4	0	3	c	#	47	40	-
	Nairn	29.54	48	WSW	2	bc	29.69	+.14	47	44	+8	E	0	c	0	bc	#	49	37	-
	Aberdeen ...	29.67	44	S	3	og	29.80	+.11	44	43	+7	SSE	5	oggr	4	r.og	0.9	46	37	0.04
	Leith	29.68	47	E	0	0	29.82	+.13	47	44	+7	SSW	2	cm	#	0	#	49	39	-
	Shields ...	29.82	46	SW	2	0	29.92	+.15	39	38	+6	SSW	3	cm	2	m.o.r	#	49	31	0.04
	Spurn Head ...	29.92	43	SSW	3	bc	30.01	+.22	38	38	-2	S	4	fr	3	bc	#	49	37	-
	York	29.88	45	SSW	1	bc	29.98	+.16	38	38	+5	S	1	b	#	o.bc	0.9	49	33	-
	Loughborough ...	29.94	45	SSW	2	0	30.01	+.16	38	37	+1	SE	2	cmw	#	bc.c.b	#	52	36	-
	Ardrossan ...	29.68	45	S	5	om	29.80	+.14	46	46	+3	S	4	pm	4	rm.om	#	46	42	0.10
	Malin Head ...	29.52	48	SSW	7	0	29.66	+.23	46	45	+5	S	5	or	3	0	#	48	40	0.01
	Belmullet ...	29.54	48	SSW	8	rg	29.78	+.29	45	45	-3	SSW	3	0	#	r.rg	#	48	43	0.55
	Donaghadee ...	29.70	43	SSW	6	c	29.80	+.12	47	47	+6	SSW	6	bc	4	c	#	49	37	0.13
	Liverpool (Bidston)	29.89	43	SSE	1	c	29.94	+.11	40	38	+2	SE	3	b	3	bc.r	#	50	37	0.06
	Holyhead ...	29.81	47	S	6	2gm	29.85	+.08	47	44	+3	S	4	cm	3	cm.am	#	49	42	0.05
	Parsonstown ...	29.69	49	SW	2	d	29.75	+.11	47	46	+2	SE	1	or	#	og	0.0	51	44	0.08
	Valencia ...	29.64	49	S	4	rg	29.77	+.15	47	47	-2	E	0	f	4	og,r	0.0	51	46	1.12
	Roche's Point ..	29.76	50	SSW	5	or	29.78	+.04	49	48	+1	SW	3	cm	4	o,r	#	51	47	0.01
	Pembroke (St. Ann's Hd.)	29.86	48	SW	4	c	29.87	+.04	47	46	0	SSE	3	bc	3	o.c	0.5	48	45	-
	Scilly	29.85	49	SSE	5	o	29.81	-.06	50	49	+3	SSW	2	m	4	e.o	3.3	54	43	-
	Prawle Point ...	29.98	46	S	3	bc	29.94	+.01	48	47	+7	ESE	2	bc	2	bc	#	51	41	-
	Jersey (St. Aubin's)	30.01	49	SSW	3	c	29.97	.00	47	46	+8	E	3	omr	3	cm	#	54	39	-
	Hurst Castle ...	30.00	47	SSW	1	bc	29.98	+.05	46	45	+3	ESE	1	bm	1	e.bc	#	52	43	-
	Dungeness ...	30.01	46	SW	3	bc	30.06	+.18	45	45	+3	SSE	3	b	2	bc.b	#	52	41	-
	North Foreland																#			
	London (Brixton) ...	30.05	45	NSW	2	bm	30.05	+.16	38	37	-1	SE	1	bm	#	bc.bmw	4.5	52	38	-
	Oxford	30.00	44	S	2	c	30.02	+.11	40	40	+3	SE	1	bcm	#	c	#	50	37	-
	Cambridge ...	30.01	42	SW	2	0	30.06	+.19	38	38	-1	S	1	bf	#	b.o	6.2	53	35	-
	Yarmouth ...	29.95	46	NSW	2	b	30.07	+.28	43	42	0	S	3	b	3	b	#	48	39	-
GERMANY & HOLLAND.	Cuxhaven ...	29.85	43	N	2	f	30.19	+.40	41	41	0	S	0	m	#	r.f	#	45	39	0.32
	Berlin	29.86	47	W	3	bc	30.23	+.26	42	41	0	NW	2	0	#	bc	#	54	42	0.04
	Wiesbaden ...	#	#	#	#	#	30.18	+.23	43	41	+2	W	1	bc	#	#	#	52	41	-
	Munich... ..	30.06	46	SW	4	r	30.22	+.13	35	35	0	E	3	b	#	r	#	59	34	0.08
	The Helder ...	30.00	42	NW	1	m	30.14	+.51	40	39	-6	S	1	bc	1	m	#	46	41	-
BELGIUM.	Brussels ...	#	#	#	#	#	30.18	+.35	35	35	-11	SE	2	b	#	b	#	47	33	-
	Cape Gris Nez ...	?	46	S	2	c	?	?	42	39	-3	SSE	2	m	2	c	#	50	37	-
	Paris	30.08	45	N	1	b	30.07	+.12	37	36	-9	NE	2	m	#	b	#	55	36	-
	Brest	29.95	49	SE	1	b	29.86	-.08	49	48	+4	ENE	3	b	3	b	#	52	45	-
	Lorient																#			
FRANCE &	Rochefort ...	29.96	55	E	2	bc	29.92	-.04	46	45	-2	E	2	b	#	bc	#	64	41	-
	Belfort	30.03	54	NSW	4	c	30.10	+.04	35	35	-4	ENE	4	m	#	c	#	60	35	-
	Lyons	30.12	52	S	2	b	30.07	-.04	41	41	-11	S	1	b	#	b	#	62	39	-
	Nice	30.17	52	SE	2	0	30.03	-.24	44	43	0	ENE	4	b	3	0	#	61	43	-
	Perpignan ...	30.13	54	E	3	0	29.99	-.16	49	49	+2	E	0	0	#	0	#	60	47	-
	Biarritz ...	29.86	63	E	3	0	29.83	-.08	47	45	-3	SE	2	0	3	0	#	68	46	-
PENINSULA.	Corunna ...																#			
	Lisbon	29.86	55	NW	3	0	29.89	+.02	55.	52	+5	NNW	5	b	#	0	#	59	50	-
	Azores (P. Delgada)																#			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

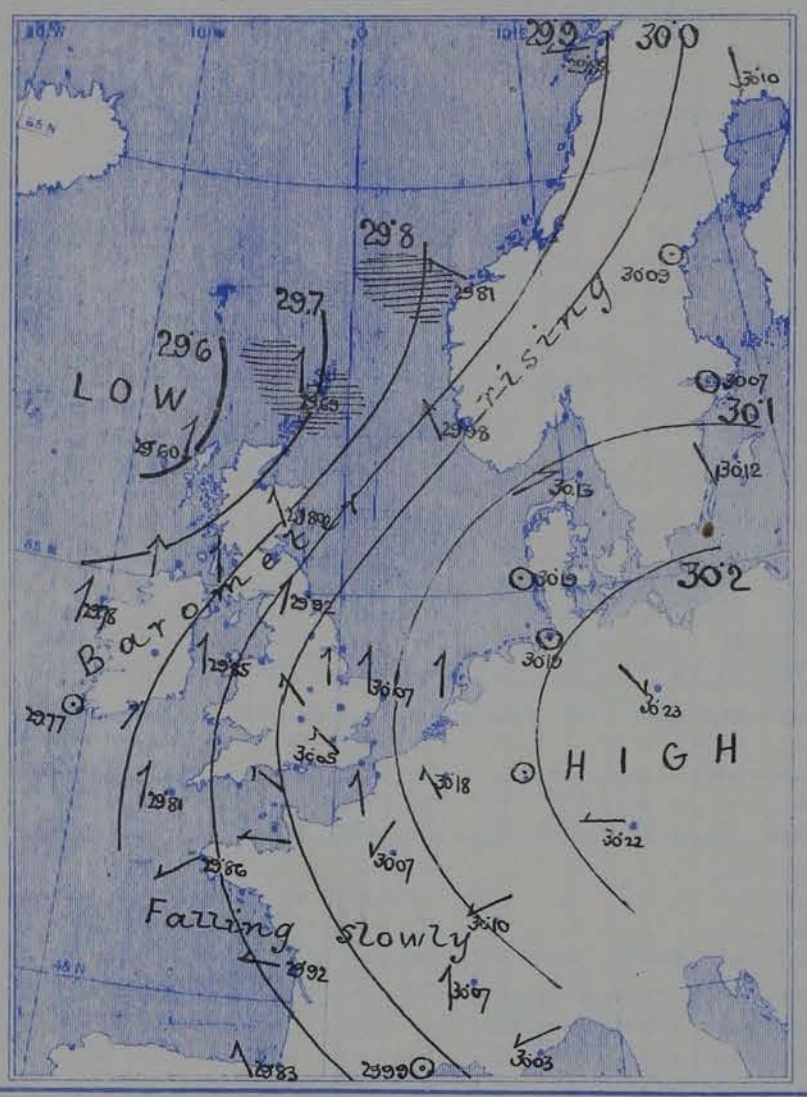
Bright Sunshine yesterday Southport 1.3 hrs;

WEATHER CHARTS

FOR Friday, 17th February, 1899.

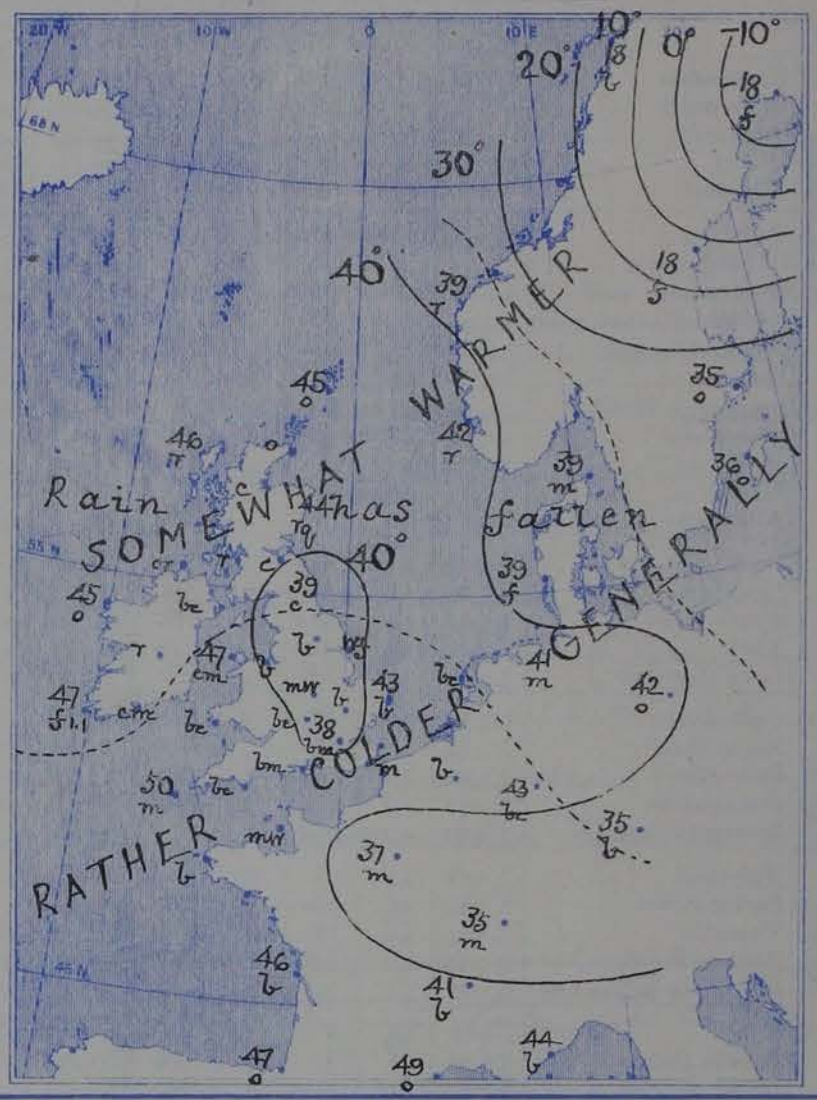
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1·65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and more to 29.9 ins. over Germany, France and the greater part of England.
Lowest 29.6 ins. at Stornoway, and below 29.7 ins. on all our NW^rn. coasts.
Gradients moderate in the NW., slight elsewhere.
Barometer rising generally.

TEMPERATURE

Highest 50° at Scilly, 47° at Valencia, Parsonstown and Holyhead, 46° at Hurst Castle.
Lowest (1) −18° F. at Haparanda, +18° at Bodö and Hernösand; (2) 38° at York and in London; 35° at Brussels and Belfort, 37° at Paris.
A maximum of 54° was reached yesterday at Scilly and Jersey, and 50° to 52° over many parts of England. At Berlin the maximum was 54°, at Paris 55°, at Rochefort 64° and at Biarritz 68°.

WIND

S^ly. over all the northern parts of our Islands, and moderate generally, SE^ly. to E^ly., and light, in the south, E^ly. over France, as well as in the northwest of Norway.

WEATHER

Still showery at many of our W^rn. and N^rn. stations, fine in the E. and SE., but hazy in places, with heavy dew.
Large amounts of rain are reported at Valencia and the Scaw.
Bright Sunshine recorded yesterday, amounted to between 5 and 8 hrs. over our SE^rn. counties, but was much slighter in the N. and N. In Ireland there was none.

SEA

Rather rough at Sumburgh Hd., moderate to smooth elsewhere, and going down generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There is no indication of any new disturbance on our coasts at present.

FORECASTS

For the 24 hours ending at NOON on 18th. FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S^ly. breezes, moderate, some rain, then finer, cool.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES	S^ly. breezes, light; fair, hazy, cool.
5 ENGLAND SOUTH	SE^ly. or E^ly. breezes, light; fine, hazy atmosphere.
6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No. 0.
8 ENGLAND S.W.	Same as No. 5.
9 IRELAND NORTH 10 IRELAND SOUTH	S^ly. breezes, light, fair as a whole, slight occasional rain.
WARNINGS	Signals all lowered this morning.

Note. The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·83	43	42	S	4	o	3
Sumburgh Head	29·53	43	40	SSW	3	o	5
Stornoway	29·36	45	45	SW	8	r	8
Aberdeen	29·67	43	40	SSE	3	o g	2
Shields	29·80	45	42	SW	2	m	2
Ardrossan	29·66	46	46	S	6	r m	4
Malin Head ...	29·46	47	46	S	7	o	5
Belmullet	29·50	48	48	SW	8	r	*
Holyhead	29·80	48	46	SSW	6	c m	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·62	51	48	S	6	o g	6
Scilly	29·88	53	49	SSW	5	c	5
Jersey	30·01	51	48	SSW	3	c	3
Hurst Castle ...	29·98	50	47	SW	2	c	1
Dungeness ...	29·98	50	48	SW	4	bc	3
North Foreland							
London (Westminster)	29·97	52	47	SW	3	bc	*
Yarmouth ...	29·90	48	44	NNW	3	b	3
Rochefort ...	29·98	61	57	S	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over France and central Europe, and becoming fine over the S.E. of England also; showery however over Ireland, Scotland and many of the E^rn. parts of the North Sea. Rain falling later in the last named districts, and reported to be heavy (locally) at Valencia and the Scaw.

Temperature rising in Ireland, fallen over England and France. Morning readings highest 63° at Algiers, 61° at Bilbao, 49° to 44° at many of our W^rn. stations. Lowest (1) 9° (zero) at Haparanda, 19° at Bodö and Kuopio; (2) 33° over the N.E. of England, 37° at Oxford, 39° at Belfort. Rising later to 50° or more over many parts of England, to 54° at Scilly, Jersey and Berlin, 55° at Paris, and 68° at Biarritz.

Wind very variable and anticyclonic over southern Europe; S^ly. to W^ly. over Germany, S^ly. to E^ly. over Norway. Light and variable from the W^nd. over the S. of England; strong S^ly. to a gale in the W. of Ireland. Increasing to a gale from S. on our northwest coasts later, but falling light and shifting to WNW. at Valencia.

Barometer highest 30.3 ins. and more over Italy, and exceeding 30.0 ins. over the S^rn. and SE^rn. parts of Europe generally. Lowest about 29.4 ins. off our extreme NW. coasts; below 29.7 ins. in a small depression near the Helder, and below 29.8 ins. in two other small disturbances in the NW of Russia. Rising fast over Holland later, slightly over France and England, and becoming anticyclonic in those regions.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Saturday, 18th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.25	0	NE	0	0	30.26	+.16	-1	-1	+17	E	2	0	#	0	#	0	-27	-
	Hernösand ...	30.20	19	NE	0	f	30.21	+.12	20	20	+2	NE	0	f	#	f	#	21	16	-
	Stockholm ...	30.18	36	NE	0	0	30.23	+.16	37	37	+2	NE	0	0	#	0	#	37	34	-
	Wisby	30.23	35	NW	4	c	30.22	+.10	37	37	+1	WSW	4	c	#	c	#	37	32	-
	Karlstad	30.14	36	SW	2	r	30.19		37	36		SW	2	0	#	r	#	#	#	0.32
	Bodö	29.88	31	E	4	0	29.88	.00	34	33	+16	E	5	r	2	0	#	34	16	0.08
	Christiansund ...	29.94	42	WSW	2	r	30.09	+.28	42	41	+3	W	6	r	5	r	#	43	39	0.16
	Skudesnaes ...	29.09	43	SSE	4	0	30.18	+.20	41	41	-1	SSE	4	f	4	0f.0	#	43	41	#
	Færder (Christiania Fjord)	30.14	38	WSW	4	m	30.17	+.13	36	36	+1	W	4	m	3	m	#	38	35	0.04
	Skagen (The Scaw)	30.22	41	NNW	3	m	30.27	+.14	39	38	0	WSW	2	m	0	m	#	41	37	-
	Fanö	30.30	41	WSW	1	0	30.26	+.07	42	41	+3	S	1	c	#	0	#	45	39	-
BRITISH ISLANDS.	Sumburgh Head	29.79	45	S	2	0	30.03	+.34	43	42	-2	NE	1	0	4	0	#	46	40	-
	Stornoway ...	29.84	44	NW	2	b	30.01	+.41	37	36	-9	NE	0	b	0	0.b	0.2	48	32	0.40
	Wick	29.83	45	S	2	c	30.03	+.35	43	43	-2	NE	0	r	2	c	#	48	40	0.25
	Nairn	29.88	48	W	1	c	30.02	+.33	42	42	-5	N	2	r	2	c	#	54	40	0.42
	Aberdeen ...	29.93	45	N	2	og	29.99	+.19	43	43	-1	NNW	1	ogmr	2	c.og	0.1	47	42	0.24
	Leith	29.90	50	NE	0	0	29.95	+.13	44	44	-3	NE	0	rm	#	0	#	54	43	0.42
	Shields	29.97	46	SSW	2	o.m	29.99	+.07	43	42	+4	SSW	3	om	2	om.r	#	51	37	0.04
	Spurn Head ...	30.02	44	SE	3	bw	30.06	+.05	41	41	+3	SSE	4	f	4	b.fw	#	47	37	-
	York	30.00	47	SSE	1	bm	30.05	+.07	39	39	+1	SSW	1	bm	#	bm	1.5	47	37	-
	Loughborough ...	30.00	48	SE	1	c	30.05	+.04	37	37	-1	ESE	1	ofw	#	c.bm.of	#	55	37	-
	Ardrossan ...	29.89	48	S	3	om	29.93	+.13	45	45	-1	NE	0	rf	0	o.om	#	48	45	0.36
	Malin Head ...	29.88	45	NNW	2	cv	29.98	+.32	44	42	-2	N	3	og	2	r.cv	#	46	43	0.08
	Belmullet ...	29.95	45	N	1	b	30.04	+.26	43	41	-2	NNE	1	b	#	c.b	#	49	40	0.02
	Donaghadee ...	29.88	48	WSW	3	c	29.95	+.15	47	47	0	NNW	6	r	4	c	#	50	46	0.35
	Liverpool (Bidston)	29.96	48	ESE	2	0	29.98	+.04	44	43	+4	SE	3	r	?	bc.r	#	51	39	0.05
	Holyhead ...	29.92	49	S	1	om	29.95	+.10	49	48	+2	SSW	1	pf	1	om	#	51	44	0.07
	Parsonstown ...	29.91	47	NW	1	r	29.97	+.22	43	42	-4	NW	1	or	#	ob	0.0	50	42	0.38
	Valencia ...	29.90	49	NE	0	om	30.02	+.28	43	42	-4	NE	0	c	4	om	0.0	51	41	0.02
	Roche's Point ..	29.88	49	NNE	2	rm	29.98	+.20	45	43	-4	NNW	3	c	3	m.rf	#	51	43	0.32
	Pembroke (St. Ann's Hd.)	29.90	49	SSE	4	0	29.97	+.10	48	48	+1	NE	0	f	3	0	0.0	49	47	-
	Scilly	29.86	50	NE	1	f	29.94	+.13	50	49	0	SSW	1	0	5	m.f	0.0	54	48	0.01
	Prawle Point ...	29.93	50	E	3	c	30.01	+.07	48	47	0	NNW	2	0	1	c	#	54	42	-
	Jersey (St. Aubin's)	29.94	50	E	3	cm	30.03	+.06	49	47	+2	E	2	cmw	2	c.cm	#	58	45	-
	Hurst Castle ...	29.98	47	E	3	bc	30.02	+.04	46	46	0	ENE	2	cm	1	bm.bcm	#	57	46	-
	Dungeness ...	30.04	48	E	2	m	30.05	-.01	46	45	+1	SE	2	c	1	b.m	#	52	43	-
GERMANY & HOLLAND.	North Foreland																#			
	London (Brixton) ...	30.04	48	SE	1	b	30.07	+.02	39	39	+1	NE	0	f	#	bm.b	4.5	57	37	-
	Oxford	30.03	49	SE	2	b	30.07	+.05	39	38	-1	NE	0	of	#	b	#	56	38	-
	Cambridge ...	30.06	46	SSE	2	b	30.08	+.02	41	41	+3	SE	1	f	#	b	8.1	58	37	-
	Yarmouth ...	30.06	44	SSE	4	b	30.08	+.01	42	41	-1	SSE	3	cm	3	b	#	45	40	-
	Cuxhaven ...	30.25	41	E	1	0	30.23	+.04	41	41	0	SE	1	0	#	0	#	43	39	-
	Berlin	30.28	45	SE	2	0	30.30	+.07	42	40	0	SE	1	c	#	0	#	48	41	-
	Wiesbaden ...	*	*	*	*	*	30.16	-.02	41	39	-2	NE	1	b	#	*	*	52	37	-
	Munich... ..	30.18	38	E	4	b	30.18	-.04	31	31	-4	SSW	3	b	#	b	#	50	28	-
	The Helder ...	30.15	41	ESE	1	0	30.13	-.01	39	38	-1	ESE	1	b	1	0	#	45	37	-
BELGIUM.	Brussels ...	*	*	*	*	*	30.12	-.06	38	36	+3	SE	2	b	#	b	#	51	32	-
	Cape Gris Nez...	?	45	SE	1	m	?	?	42	40	0	ESE	1	m	1	m	#	54	37	-
	Paris	30.02	49	NE	1	b	30.08	+.01	33	33	-4	NE	1	?s	#	b	#	59	32	-
	Brest	29.88	51	SE	2	c	30.01	+.15	50	50	+1	NE	0	0	2	c	#	55	46	-
	Lorient... ...																#			
FRANCE &	Rochefort ...	29.90	55	E	1	0	30.04	+.12	46	44	0	SE	2	c	#	c.0	#	64	43	-
	Belfort	30.02	46	ENE	4	m	30.18	+.08	32	32	-3	N	1	f	#	m	#	55	32	-
	Lyons	29.99	53	NW	1	c	30.16	+.09	40	39	-1	NNW	1	bf	#	c	#	57	38	-
	Nice	29.93	54	E	6	c	30.06	+.03	50	41	+6	E	4	c	3	c	#	63	44	-
	Perpignan ...	29.96	53	NE	2	0	30.10	+.11	51	51	+2	NE	0	c	#	a	#	54	44	0.59
	Biarritz ...	29.85	52	NE	0	0	30.01	+.18	54	53	+7	SW	4	0	4	0	#	55	47	-
PENINSULA.	Corunna ...																#			
	Lisbon														#		#			
	Azores (P. Delgada)	30.12	54	WNW	3	b	30.09	+.10	52	47	+3	SW	4	c	3	b	#	57	46	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3.0 hrs;

WEATHER CHARTS

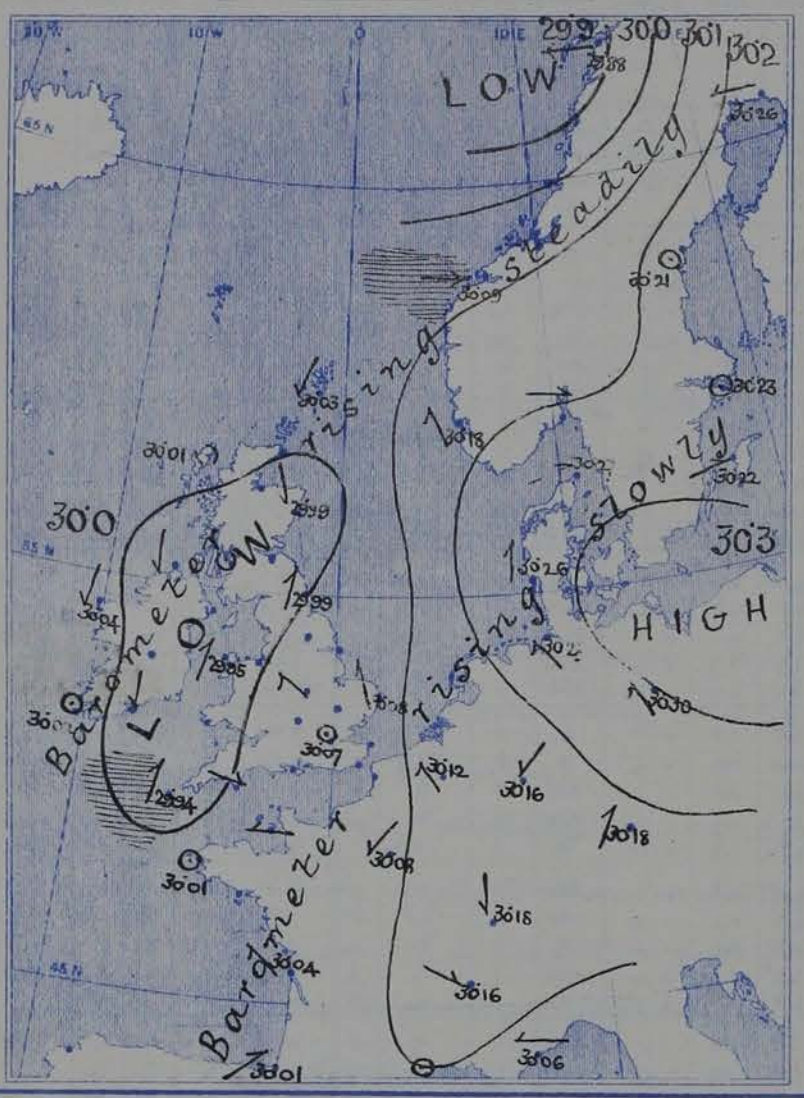
FOR Saturday, 18th February, 1899.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ➔➔ ; *Force 5 to 7* ⟶ : } Calm ⊙
Force 8 to 10 ➔ ; *Force 1 to 4* ⟶ : }

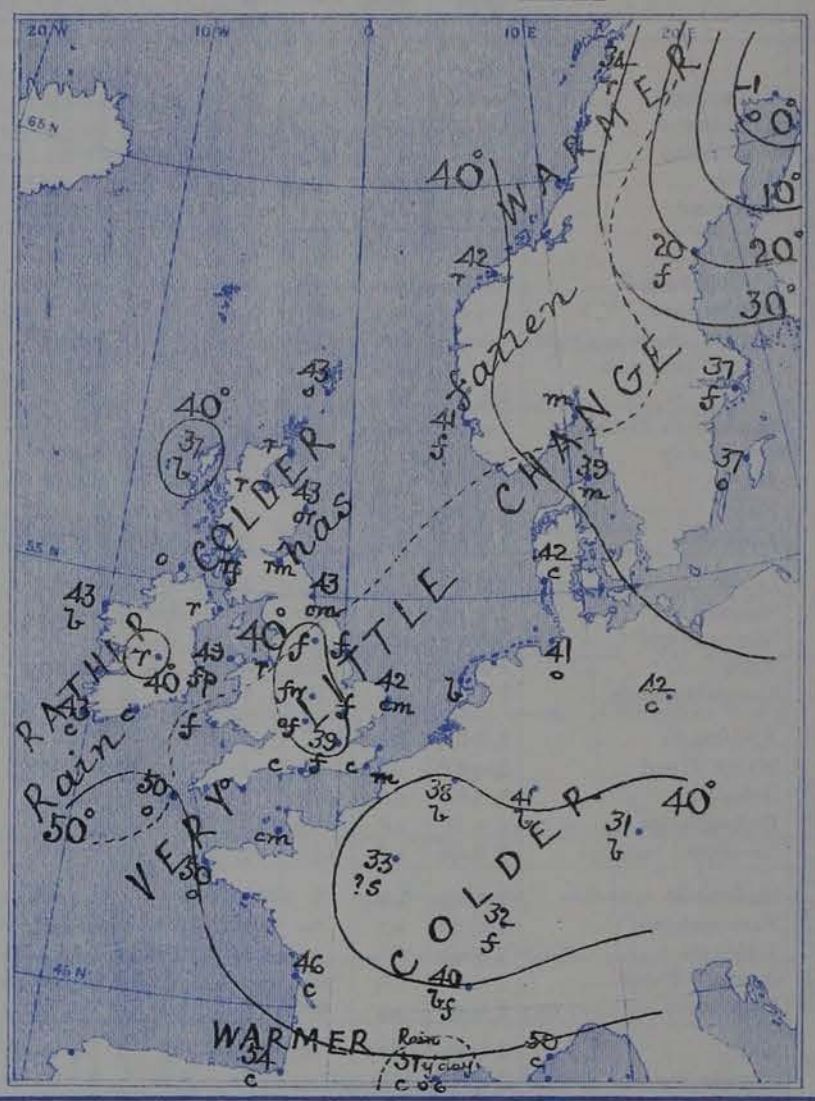
SEA—Rough ▤ : *High* ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL— *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.*



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1.65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30.3 ins. and more to 30.1 ins. over Germany, the Baltic and the North Sea, (2) 30.02 ins at Valencia.
Lowest 30.0 ins. and less over the W^rn and N^rn parts of Gt. Britain and the E. of Ireland.
Gradients moderate (but variable) and irregular.
Distribution very complex.
Barometer rising in the extreme W. and N. of Ireland and Scotland, steady in London.

TEMPERATURE

Highest 54° at Biarritz, 50° at Sailly, 49° at Holyhead, 44° at Leith, 45° at Aberdeen.
Lowest (1) −1° at Haparanda, + 20° at Hernösand; (2) 37° at Stornoway and at Loughborough, 39° at York, Oxford and in London.
The maxima registered yesterday were as high as 58° at Jersey, 57° at Hurst Castle and in London, 54° at Sailly and Nairn, but did not touch 50° at most of the Scotch stations.

WIND

Light from between S. and SE. over the North Sea and the east and southeast of England, but had shifted to N. over Ireland and many parts of Scotland. In France it was very variable and light.

WEATHER

Rainy in Scotland and Ireland, foggy and damp over England, fine over France. Snow reported locally at Paris.
Bright Sunshine recorded yesterday exceeded 8 hrs. on the SE. coast of England. In Scotland there was very little, in Ireland none.

SEA

Rough at the mouth of the English Channel, moderate at our W^rn and NE^rn stations generally, smooth in the Channel.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The shallow depression in the W. and NW. seems to be moving slowly to the SE^wd, and N^ly winds and rain are probable over England shortly.

FORECASTS

For the 24 hours ending at NOON on 19TH FEBRUARY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	N^ly winds, moderate, rainy at first, then fair.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	Same as No^s 0 and 1.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Wind shifting from S^wd to N^wd; light; some rain, then fair and colder.	WARNINGS	None issued.

Note. The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·06	42	42	S	6	of	4
Sumburgh Head	29·74	45	44	S	2	o	5
Stornoway	29·72	48	47	NSW	3	o	3
Aberdeen	29·87	46	44	SW	2	c	3
Shields	29·94	50	46	SSW	2	m	2
Ardrossan	29·85	47	47	S	4	o	4
Malin Head ...	29·80	46	45	SSW	1	r	2
Belmullet	29·88	47	45	NNW	2	c	*
Holyhead	29·89	51	48	SSW	3	m	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·85	50	48	W	0	om	4
Scilly	29·84	53	51	SE	1	m	4
Jersey	29·96	55	?	E	3	c	2
Hurst Castle ...	29·98	52	51	ENE	1	bm	1
Dungeness ...	30·05	51	50	SSE	2	b	2
North Foreland							
London (Westminster)	30·03	56	50	SE	2	b	*
Yarmouth ...	30·08	45	44	SSE	4	b	3
Rochefort ...	29·90	63	60	E	1	*c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright over France and the greater part of England, but hazy or foggy in places; still rainy and squally in various parts of Ireland, Scotland and the W. of Norway. Rain falling later at the Scotch and Irish stations, and also in the W. and S. of Norway, but weather remaining fine over the SE. of England and in France.

Temperature rises in our Islands, falls in France. Morning readings highest 61° at La Coruña, 55° to 56° on the Portuguese coast, 50° at Scilly, and above 45° at all our Wm. and NWm. stations. Lowest (1) −18° at Haparanda, +18° at Bodö, and 32° at Moscow; (2) 38° to 39° over the central and NEm. parts of England, 37° at Paris, 35° at Belfort. Rising later to 54° at Nairn, Leith and Scilly, to 58° at Jersey and Cambridge, 59° at Paris, and 64° at Rochefort, but falling over England later, and changes very irregular.

Wind light to moderate and mainly anticyclonic over the Continent, and SE. to S. over our Islands, but of little strength anywhere. Shifting suddenly to the Nwd. in some parts of Ireland later, but very little change elsewhere.

Barometer highest 30·2 ins. and more in the W. of Germany, and exceeding 30·0 ins. all over Italy, SEm. and central Europe, the SE. of England, Sweden and the E. of Lapland. Lowest 29·9 ins. and less over central Russia, 29·7 ins. to 29·6 ins. at our extreme Nm. and NWm. stations, and about 29·5 ins. near Oran. Rising in our Islands during the day, and apparently a new anticyclone forming off the W. of Ireland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday, 19th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	30·02	21	NE	0	0	30·11	-·15	13	12	+14	NNW	2	b	*	0	*	21	-8	0·08
	Hernösand ...	30·10	14	NE	0	c	30·13	-·08	24	20	+4	NE	0	0	*	c	*	27	10	-
	Stockholm ...	30·26	36	NE	0	0	30·21	-·02	35	35	-2	NSW	2	f	*	0	*	39	34	-
	Wisby	30·30	38	W	4	0	30·29	+·07	36	35	-1	NSW	4	d	*	0	*	37	32	-
	Karlstad ...	30·26	35	NW	2	0	30·19	-·00	35	34	-2	SW	2	0	*	0	*	*	*	-
	Bodö	30·08	37	W	2	c	30·09	+·21	35	33	+1	ESE	2	c	1	c	*	37	32	0·35
	Christiansund ...	30·13	41	WSW	1	r	30·08	-·01	39	38	-3	E	2	r	4	r	*	43	39	0·16
	Skudesnaes ...	30·18	42	SSE	2	0	30·08	-·10	41	40	0	SE	4	0	2	0	*	42	39	*
	Færder (Christiania Fjord)	30·22	38	SSW	2	0	30·14	-·03	39	37	+3	S	4	0	2	0	*	?	34	-
	Skagen (The Scaw)	30·28	39	SSW	2	m	30·19	-·08	38	37	-1	SSW	2	m	0	m	*	41	37	-
	Fanö	30·22	42	S	2	c	30·16	-·10	40	39	-2	S	1	0	*	c	*	45	39	-
BRITISH ISLANDS	Sumburgh Head	30·03	41	NNE	1	0	30·08	+·05	39	38	-4	N	1	b	3	0	*	45	37	0·02
	Stornoway ...	30·07	41	E	0	b	30·12	+·11	31	30	-6	E	0	c	0	c,b	2·4	46	28	0·03
	Wick	30·06	43	W	2	bc	30·13	+·10	34	33	-9	NW	1	b	1	bc	*	44	30	0·05
	Nairn	30·09	40	E	0	0	30·16	+·14	34	32	-8	W	1	bc	1	c	*	42	30	0·38
	Aberdeen ...	30·03	41	NW	4	0	30·15	+·16	38	37	-5	NW	3	c	2	r,0	0·0	44	38	0·14
	Leith	30·02	45	E	0	r	30·14	+·19	41	41	-3	E	0	0	*	r	*	45	39	0·15
	Shields	30·00	44	SSW	2	cm	30·12	+·13	42	42	-1	NW	2	om	2	cm,r	*	48	40	0·01
	Spurn Head ...	30·04	42	SSE	4	f	30·12	+·06	42	42	+1	WNW	2	f	3	f	*	42	39	0·01
	York	30·05	45	S	1	0	30·14	+·09	43	43	+4	W	1	om	*	0	0·0	45	37	-
	Loughborough ...	30·04	47	SE	1	c	30·14	+·09	37	37	0	SE	1	fw	*	cm.bf	*	50	37	-
	Ardrossan ...	30·00	45	W	1	0	30·12	+·19	42	42	-3	NE	2	om	1	0	*	46	41	0·02
	Malin Head ...	30·07	44	N	4	b	30·15	+·17	41	40	-3	SW	2	bc	2	bc.b	*	45	40	-
	Belmullet ...	30·10	43	ENE	2	b	30·18	+·14	35	34	-8	ESE	1	b	*	bc,0	*	49	33	0·01
	Donaghadee ...	30·01	45	NW	4	c	30·16	+·21	37	37	-10	WNW	4	bc	2	c	*	48	35	0·01
	Liverpool (Bidston)	30·03	47	E	0	0	30·16	+·18	43	43	-1	W	1	0	1	opg	*	52	43	-
	Holyhead ...	30·02	48	WSW	1	fa	30·16	+·21	44	43	-5	E	0	cm	0	df	*	49	43	0·01
	Parsonstown ...	30·06	45	NW	1	r	30·19	+·22	32	32	-11	E	0	c	*	o,r	0·0	45	32	0·01
	Valencia ...	30·07	47	E	0	bc	30·19	+·17	45	43	+2	W	2	cv	4	c.bc	4·8	51	39	0·01
	Roche's Point ...	30·08	46	NNW	2	bc	30·20	+·22	39	39	-6	NW	1	ef	3	bc	*	49	38	-
	Pembroke (St. Ann's Hd.)	30·05	47	W	3	0	30·19	+·22	46	45	-2	W	2	ow	2	0	0·0	49	44	0·05
	Scilly	30·08	49	NNW	3	c	30·16	+·22	49	46	-1	NW	1	cw	4	c	2·4	51	45	-
	Prawle Point ...	30·08	49	WSW	2	0	30·19	+·18	43	42	-5	NNE	3	c	1	0	*	51	41	-
	Jersey (St. Aubin's)	30·00	51	W	3	om	30·18	+·15	49	48	0	E	0	om	0	0	*	58	46	-
	Hurst Castle ...	30·05	49	SSW	1	bc	30·18	+·16	44	43	-2	NNE	1	f	1	cm,bc	*	52	43	-
	Dungeness ...	30·07	47	SSW	1	c	30·15	+·10	46	44	0	NSW	1	f	1	c	*	52	44	0·01
	North Foreland																*			
	London (Brixton) ...	30·07	46	ESE	1	ogf	30·16	+·09	44	43	+5	E	0	0	*	f	0·0	51	38	-
	Oxford	30·08	50	S	1	0	30·18	+·11	44	43	+5	SW	1	om	*	0	*	53	39	-
	Cambridge ...	30·08	46	SE	1	0	30·16	+·08	43	43	+2	E	0	f	*	0	1·0	53	38	-
	Yarmouth ...	30·06	41	SSE	3	f	30·10	+·02	42	40	0	W	2	f	2	f	*	43	35	-
GERMANY & HOLLAND	Cuxhaven ...	30·19	43	SE	2	c	30·13	-·10	36	35	-5	E	0	f	*	0	*	43	34	-
	Berlin	30·26	41	E	3	b	30·22	-·08	33	32	-9	SE	2	b	*	b	*	45	32	-
	Wiesbaden ...	*	*	*	*	*									*	*	*			
	Munich... ..	30·21	36	SE	3	b	30·25	+·07	32	32	+1	S	2	b	*	b	*	50	28	-
	The Helder ...																*			
BELGIUM	Brussels ...	*	*	*	*	*	?	?	39	39	+1	E	0	f	*	0	*	55	37	-
	Cape Gris Nez	?	45	E	1	m	?	?	46	44	+4	SW	1	f	1	m	*	50	41	-
	Paris	30·12	52	SSW	2	b	30·19	+·11	35	35	+2	N	1	f	*	b	*	60	33	-
	Brest	30·12	50	NNW	1	0	30·15	+·14	45	44	-5	NNE	2	c	3	0	*	54	43	-
	Lorient... ...																*			
FRANCE	Rochefort ...	30·08	55	S	2	0	30·08	+·04	46	45	0	SSE	3	b	*	0	*	61	41	-
	Belfort	30·14	48	NE	2	m	30·23	+·05	34	33	+2	ESE	1	b	*	m	*	61	32	-
	Lyons	30·15	55	NNW	1	b	30·23	+·07	42	41	+2	N	1	bfw	*	b	*	60	40	-
	Nice	30·11	53	E	0	bq	30·15	+·09	46	41	-4	E	2	b	2	be	*	61	45	-
	Perpignan ...	30·15	54	SE	1	bc	30·15	+·05	43	43	-8	SW	1	b	*	be	*	60	44	-
	Biarritz ...	30·07	55	E	0	0	30·07	+·06	45	44	-9	ENE	2	0	5	0	*	57	43	-
PENINSULA	Corunna ...	30·10	55	N	4	c	30·04	-·06	51	50	-3	NNE	1	f	5	a	*	57	48	-
	Lisbon	30·09	54	WSW	2	c	30·06	-·07	50	50	-4	ESE	4	f	*	c	*	61	50	-
	Azores (P. Delgada)	30·10	55	W	3	0	29·91	-·18	58	57	+6	SSW	5	0	6	c	*	59	52	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0·4 hrs;

WEATHER CHARTS

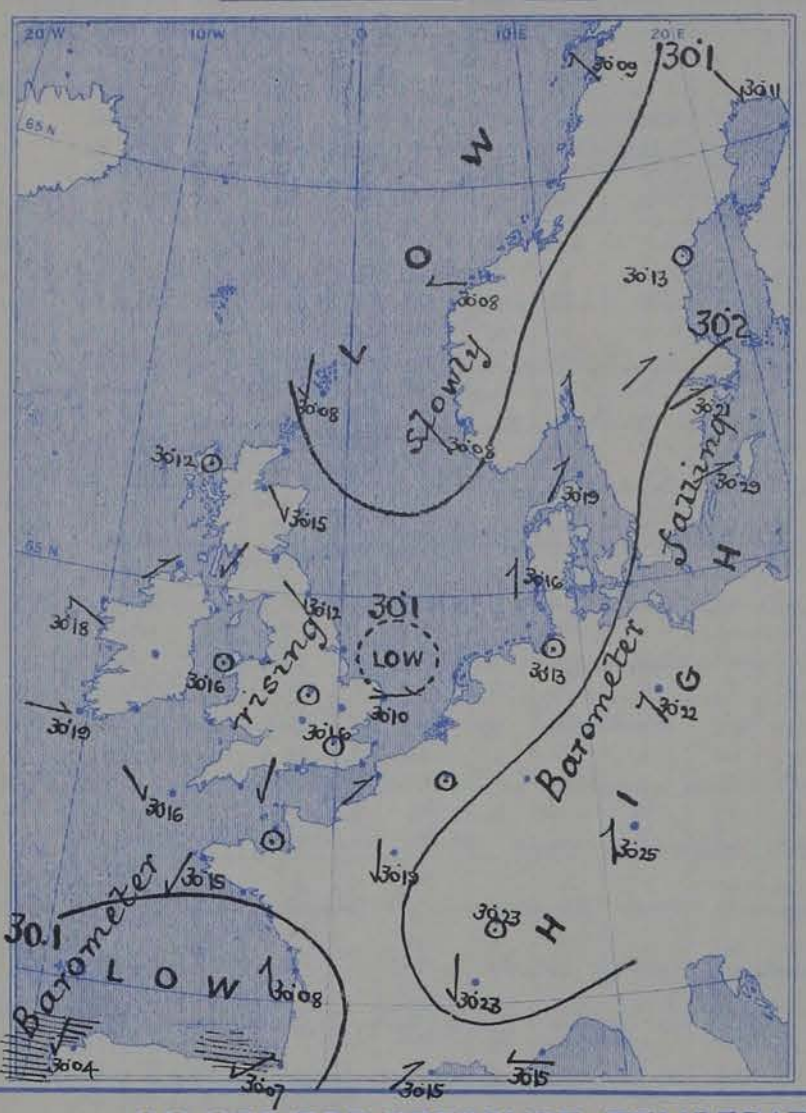
FOR Sunday, 19th February, 1899.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

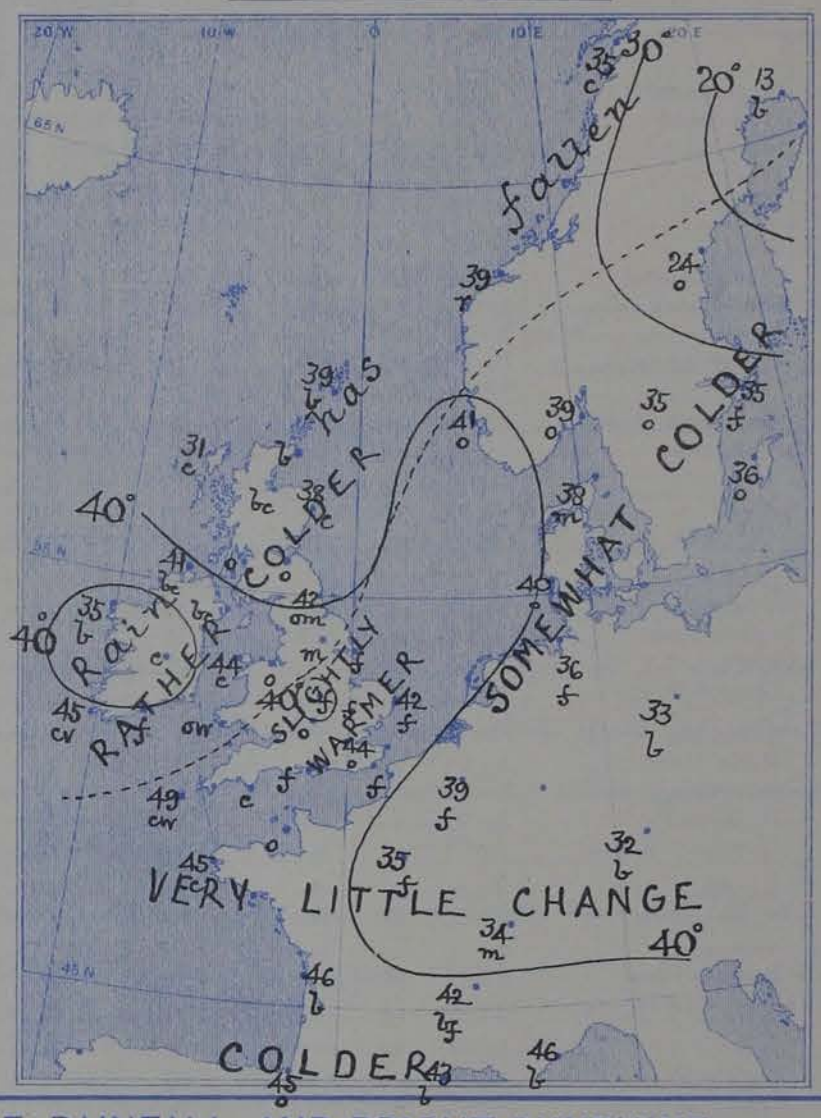
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43 4	32·5	64	1891	0	1895	1.65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and more over Germany and the Baltic.
Lowest 30.1 ins. and less (1) over Norway and (2) over Spain & the S.W. of France, 29.91 ins. in the Azores.
Gradients very slight everywhere.
Barometer falling in the Azores, Spain and over the Baltic, rising elsewhere.

TEMPERATURE

Highest 51° at Corunna, 49° at Scilly, 46° at Pembroke.
Lowest 13° at Haparanda, 39° at Christiansund and Sumburgh Hd., 31° at Stornoway; 35° at Paris, 32° at Munich.
It was very irregularly distributed.

WIND

Extremely light and variable over our Islands, France and Germany.
Light SE.ly over the Skager Rack and south of Norway.

WEATHER

Foggy or hazy in many parts of England and France, clear over Germany, as well as in Ireland and Scotland.
Some further rain showers have fallen in the W. and N. of our Islands. Fog was dense in the south of London last evening.
Bright sunshine recorded yesterday was rather considerable at Valencia, but very small elsewhere, and in many cases altogether wanting.

SEA

Moderate at Christiansund and Valencia, slight to very smooth on our coasts generally.
It is rough in the Azores and the S.W. of Europe.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 20TH FEBRUARY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·20	41	40	SSE	4	0	3
Sumburgh Head	30·02	44	43	NE	1	0	4
Stornoway	30·04	46	45	Z	0	c	0
Aberdeen	29·98	44	44	NW	3	ogr	3
Shields	30·00	45	44	SSW	2	o	2
Ardrossan	29·97	45	45	WSW	1	o	1
Malin Head ...	30·03	45	42	N	4	bc	3
Belmullet	30·09	49	45	NNE	2	bc	*
Holyhead	29·99	49	49	S	1	af	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·05	49	45	ENE	1	c	4
Scilly	30·05	49	47	WNW	3	c	4
Jersey	30·07	52	51	SSE	3	o	3
Hurst Castle ...	30·04	52	50	S	1	cm	2
Dungeness ...	30·06	50	49	SSE	1	c	1
North Foreland							
London (Westminster)	30·05	52	48	SE	2	f	*
Yarmouth ...	30·06	43	42	SSE	3	f	3
Rochefort ...	30·06	60	55	SE	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair but dull over the greater part of the Continent, fine and bright in the Netherlands and the NE. of France; foggy over England, rainy over Scotland, Ireland and the Irish Sea, as well as in the NW. of Norway. Rain falling later in all the last named regions, and fog becoming dense in the south of London.

Temperature risen over England, fallen over Ireland and Scotland. Morning readings highest 60° at Malta, 56° at Algiers, 54° at Biarritz, 50° at Brest and Scilly. Lowest (1) −7° at Ulealborg, +13° at Archangel and Kuopio, 18° at Moscow; (2) 31° at Munich, 33° at Paris; (3) 37° at Loughborough, 39° at York, Oxford and in London. Rising later to between 50° and 53° in the central and southern parts of our Islands, to 58° at Jersey, 60 at Paris, 61° at Rochefort, Nice and Lisbon.

Wind light and exceedingly variable all over Europe – but a faint cyclonic circulation shown over our Islands; mainly SE. ¼ in the west and northwest of Germany, E. ¼ at Bodö, W. ¼ at Christiansund. No decided change later.

Barometer highest 30.3 ins. and more to 30.1 ins. over nearly the whole of Continental Europe. Lowest 29.9 ins. and less over the NW. of Norway; 30.0 ins. and less over the W. and N. of the British Islands; 29.9 ins. and less over Algeria. No decided change later.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France, at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Monday, 20th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	30·19	5	NE	0	f	30·22	+·11	1	0	−12	NNW	2	b	*	f	*	21	1	–
	Hernösand ...	30·04	28	N	4	s	30·18	+·05	29	29	+5	N	2	o	*	s	*	30	12	0·55
	Stockholm ...	30·13	36	NE	0	o	29·92	−·29	34	33	−1	W	2	s	*	o	*	39	34	–
	Wisby	30·13	37	SSW	4	o	29·92	−·37	36	36	0	S	4	f	*	o	*	37	32	–
	Karlstad ...	30·05	36	SW	2	o	30·01	−·18	36	34	+1	N	2	r	*	o	*	*	*	0·04
	Bodö	30·17	30	E	2	b	30·21	+·12	26	24	−9	ESE	4	b	1	b	*	35	25	–
	Christiansund ...	30·15	41	ENE	3	r	29·96	−·12	37	36	−2	NE	0	c	4	r	*	41	37	0·08
	Skudesnaes ...	30·15	39	NNW	4	bc	30·30	+·22	40	38	−1	NNW	6	c	2	fr. bc	*	45	36	*
	Færder (Christiania Fjord)	30·03	37	SW	2	m	30·07	−·07	38	35	−1	NNW	6	c	3	m	*	39	32	–
	Skagen (The Scaw)	30·10	39	NSW	1	m	30·08	−·11	37	36	−1	N	3	bc	0	m	*	39	36	–
	Fanö	30·16	39	W	1	m	30·20	+·04	38	37	−2	NNW	2	b	*	m	*	41	37	–
BRITISH ISLANDS.	Sumburgh Head	30·19	40	NNW	1	b	30·35	+·27	38	37	−1	NSW	1	bc	3	b	*	45	36	–
	Stornoway ...	30·20	41	NSW	2	bv	30·32	+·20	34	34	+3	NE	0	b	0	b.bv	6·6	48	27	–
	Wick	30·28	46	NE	0	b	30·36	+·23	33	32	−1	NE	0	b	0	b	*	50	30	–
	Nairn	30·25	40	NE	0	b	30·37	+·21	25	25	−9	NE	0	b	0	b	*	48	22	–
	Aberdeen ...	30·28	40	N	1	b	30·41	+·26	29	29	−9	W	1	bm	1	b	6·6	46	28	–
	Leith	30·25	43	NE	0	o	30·40	+·26	35	34	−6	E	1	o	*	o	*	44	29	–
	Shields	30·25	43	N	2	o	30·36	+·24	42	40	0	NE	3	c	3	d.o	*	44	39	–
	Spurn Head ...	30·21	43	NNE	3	c	30·28	+·16	43	41	+1	ENE	5	o	5	f.c	*	45	41	–
	York	30·22	46	NNE	1	o	30·33	+·19	41	40	−2	NE	1	o	*	c.om	0·2	50	38	–
	Loughborough ...	30·20	48	E	1	o	30·27	+·13	42	41	+5	NE	2	omgd	*	cm.omg	*	51	37	–
	Ardrossan ...	30·27	44	NNE	1	om	30·35	+·23	32	32	−10	NNE	3	bf	1	om	*	45	32	–
	Malin Head ...	30·24	42	ESE	2	b	30·27	+·12	37	36	−4	SE	4	bm	2	b	*	47	35	–
	Belmullet ...	30·24	45	SSW	1	b	30·23	+·05	38	37	+3	E	2	b	*	b	*	51	34	0·01
	Donaghadee ...	30·24	44	NW	4	bc	30·31	+·15	41	40	+4	ESE	6	c	4	bc	*	50	36	–
	Liverpool (Bidston)	30·25	42	NNW	1	bc	30·26	+·10	43	40	0	ENE	4	o	?	bc	*	47	41	–
	Holyhead ...	30·24	44	N	2	c	30·21	+·05	43	42	−1	ENE	4	ogm	3	c	*	49	41	–
	Parsonstown ...	30·24	44	NE	0	b	30·17	−·02	39	38	+7	NE	1	om	*	b	5·4	49	30	–
	Valencia ...	30·23	47	N	1	bv	30·08	−·11	44	40	−1	ENE	4	cm	4	bv	8·3	49	36	–
	Roche's Point ..	30·23	45	SE	1	b	30·10	−·10	43	43	+4	ENE	4	rm	4	b	*	50	38	0·01
	Pembroke (St. Ann's Hd.)	30·20	45	NE	3	o	30·06	−·13	43	42	−3	E	5	gr	3	bc.o	4·3	47	41	0·23
	Scilly	30·16	49	ENE	2	c	29·95	−·21	48	48	−1	ENE	4	m	3	c	1·8	51	45	0·31
	Prawle Point ...	30·18	46	NNE	2	c	30·06	−·13	46	46	+3	ESE	5	f	4	c	*	51	42	–
	Jersey (St. Aubin's)	30·14	51	NNE	2	om	30·09	−·09	47	47	−2	E	3	om	3	om	*	52	46	–
	Hurst Castle ...	30·17	50	NE	0	om	30·13	−·05	46	45	+2	E	4	ogm	3	om	*	53	43	–
	Dungeness ...	30·18	47	SE	1	c	30·17	+·02	46	46	0	ENE	4	m	3	m.c.f	*	49	45	–
	North Foreland																*			
	London (Brixton) ...	30·19	48	NW	1	f	30·20	+·04	44	43	0	ENE	3	og	*	ogm	0·0	50	43	–
	Oxford	30·22	46	N	1	c	30·22	+·04	43	42	−1	ENE	2	o	*	c	*	53	42	–
	Cambridge ...	30·22	47	NE	0	o	30·25	+·09	43	43	0	NE	2	o	*	bc.o	2·8	55	41	–
	Yarmouth ...	30·15	44	N	3	o	30·24	+·14	43	42	+1	NE	4	cgf	4	o	*	47	40	0·01
GERMANY & HOLLAND.	Cuxhaven ...	30·17	37	W	1	f	30·23	+·10	40	40	+4	NNW	3	o	*	f	*	41	36	–
	Berlin	30·16	44	SW	1	b	30·18	−·04	36	35	+3	NE	0	o	*	b	*	50	33	–
	Wiesbaden ...	*	*	*	*	*	30·24		35	35		NE	0	o	*	*	*	41	34	–
	Munich	30·21	39	SE	1	b	30·22	−·03	31	31	−1	S	3	f	*	b	*	52	28	–
	The Helder ...	30·16	42	NE	0	f	30·24		43	42		NE	2	f	1	f	*	43	39	–
BELGIUM.	Brussels ...	*	*	*	*	*	30·25	?	41	41	+2	ENE	2	f	*	r	*	43	37	–
	Cape Gris Nez ...	?	47	SW	1	f	?	?	47	45	+1	E	1	f	1	f	*	48	41	–
	Paris	30·19	44	NNE	1	f	30·17	−·02	41	41	+6	NE	2	f	*	f	*	47	35	–
	Brest	30·15	50	NE	2	o	? 30·01	−·14	49	48	+4	SE	2	o	2	o	*	52	41	–
	Lorient																*			
FRANCE &	Rochefort ...	30·07	52	NW	3	b	30·04	−·04	46	46	0	E	2	b	*	b	*	66	43	–
	Belfort	30·18	45	ENE	1	m	30·19	−·04	34	34	0	NE	0	m	*	m	*	57	33	–
	Lyons	30·17	52	NNW	1	b	30·19	−·04	37	37	−5	S	1	b	*	b	*	59	36	–
	Nice	30·11	55	E	2	b	30·17	+·02	51	44	+5	NE	0	b	1	b	*	64	46	–
	Perpignan ...	30·14	50	ENE	1	b	30·15	·00	48	48	+5	NE	0	o	*	b	*	60	43	–
	Biarritz ...	30·05	63	E	3	b	30·02	−·05	55	50	+10	S	3	b	3	b	*	66	45	–
PENINSULA.	Corunna ...																*			
	Lisbon	30·09	52	NW	1	r	30·03	−·03	50	49	0	NE	0	o	*	r	*	61	50	1·22
	Azores (P. Delgada)	29·69	56	W	5	bc	29·76	−·15	52	48	−6	NW	3	bc	4	bc	*	59	50	0·24

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 1·3 hrs;

WEATHER CHARTS

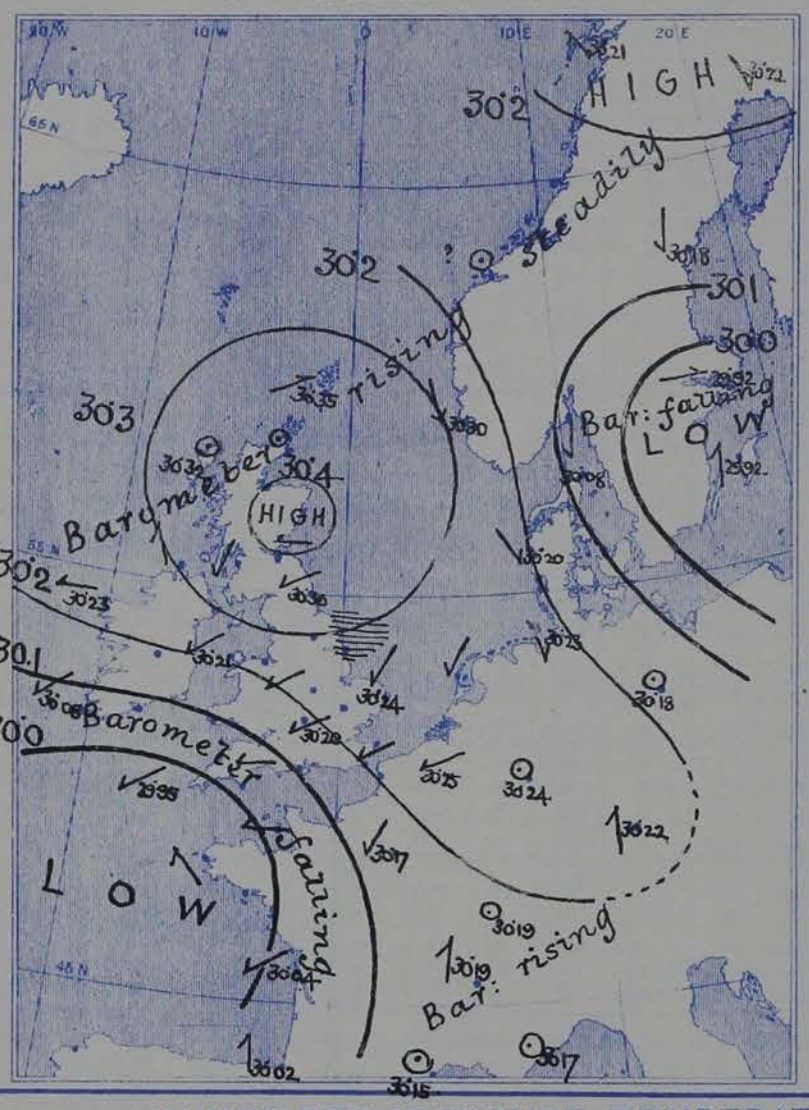
FOR Monday, 20th February, 1899.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙

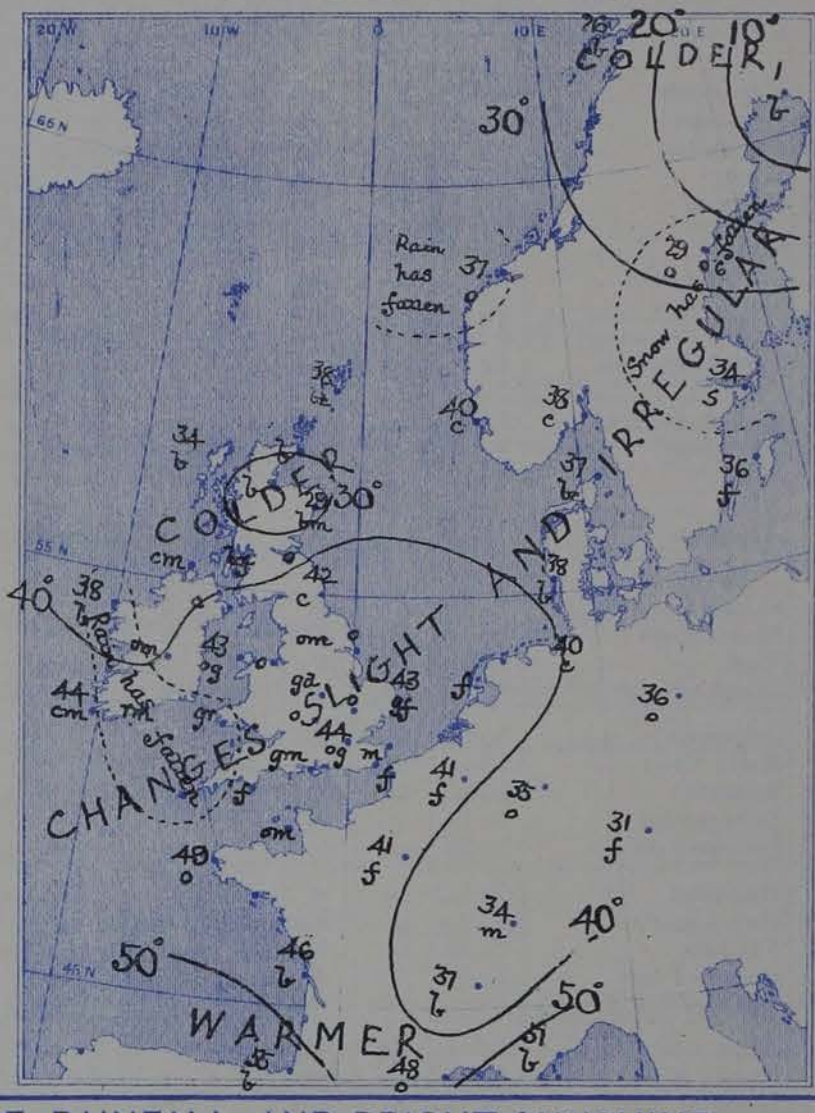
SEA—Rough ▤ : *High* ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1.65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·6†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.41 ins. at Aberdeen, and exceeding 30.3 ins. over all the N^rn. parts of our Island and the adjacent parts of the North Sea.
Lowest 30.0 ins. and less over the Bay of Biscay, and also over the Baltic.
Gradients moderate, but increasing, at our SW^rn. stations, slight and decreasing in the S. of Sweden.
Barometer rising in our Islands, most in the N., falling over the Bay of Biscay, to W. of France and at the mouth of the Channel.

TEMPERATURE

Highest 55° at Biarritz, 49° to 46° over the English Channel.
Lowest (1) 1° F. at Haparanda, 26° at Bodo, 29° at Hernosand; (2) 25° at Nairn, 29° at Aberdeen, 39° at Parsonstown.
The maxima recorded yesterday ranged from 53° to 50° at our S^rn. stations, and touched 51° at Loughborough, 50° at York. At Berlin the maximum was 50°, at Paris 48°, at Brussels only 43°.

WIND

(1) Light and variable in Scotland; (2) N^ly. to NW^ly. on the eastern shores of the North Sea, but S^ly. at Wisby.
(2) E^ly. to NE^ly. over Ireland, England and France, and blowing briskly at our Channel stations.
(3) S^ly. at Biarritz and Lyons.

WEATHER

Fine in Ireland and Scotland, very dull over England and the Channel.
Slight rain has fallen on our SW^rn. coasts, halos have been seen at Jersey, Cosford & Roche's Pt.
Bright Sunshine recorded yesterday amounted to between 6 and 8 hours in Scotland and Ireland, to rather more than 2 hours on some parts of our SE^rn. coasts. In London and at Hastings there was none.

SEA

Moderate in exposed parts of the Channel, smooth in the NE.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A freshening E^ly. wind is probable over England and the Channel, with, perhaps some cold showers.

FORECASTS

For the 24 hours ending at NOON on 21st. FEBRUARY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Very light winds and fair cold weather.	6 SCOTLAND WEST	Same as No. 0
1 SCOTLAND EAST	NE^ly. winds, moderate to fresh; fair, cloudy.	7 ENGLAND N.W.	Same as Nos. 1 and 2.
2 ENGLAND N.E.		8 ENGLAND S.W.	Same as No. 5.
3 ENGLAND EAST	Same as No. 5.	9 IRELAND NORTH	E^ly. and NE^ly. breezes, moderate to fresh; fair generally.
4 MIDLAND COUNTIES	Same as Nos. 1 and 2.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	NE^ly. breezes, fresh or strong; dull, some cold showers.	WARNINGS	None issued.

Note. The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·10	41	41	S	2	rf	3
Sumburgh Head							
Stornoway	30·16	48	46	SSW	2	b	2
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·21	46	44	NW	2	b	2
Belmullet	30·23	51	48	SW	2	b	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30·17	51	49	NE	3	o	3
Hurst Castle ...							
Dungeness ...	30·17	48	47	NSW	1	m	1
North Foreland							
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·10	62	58	E	1	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 12TH TO 18TH FEB.

During this week there has been a gradual but decided change in the distribution of pressure over Wn. Europe; between Sunday and Tuesday the barometer rose unsteadily, with the result that the depressions from the Atlantic ceased to encroach on our Islands and the Sy. gales died down slowly. Some local disturbances, however, were developed, which caused considerable rain in places, the most important being the small depression which was formed over the N. of France on Wednesday night and dispersed over the Sn. parts of the North Sea on Thursday.

The Continental anticyclone then spread slowly, and by Friday had spread over England and Ireland. On Saturday a very shallow depression appeared over our Wn. stations, but at the close of the week anticyclonic conditions, of a somewhat irregular kind, were again becoming general, and thick fogs were reported in many parts of our Islands.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Tuesday, 21st February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.21	7	NE	0	0	30.12	-.10	-5	7	-6	NE	0	0	*	0	*	7	-5	-
	Hernösand ...	30.36	19	NW	2	b	30.27	+.09	35	33	+6	W	4	bc	*	bc	*	35	16	-
	Stockholm ...	30.24	27	NNW	6	c	30.33	+.41	27	26	-7	NW	2	bc	*	c	*	36	25	0.04
	Wisby														*		*			
	Karlstad ...	30.40	32	N	4	b	30.47	+.46	26	24	-10	NNW	2	bc	*	b	*	*	*	-
	Bodö	30.19	39	SW	7	m	30.23	+.02	39	38	+13	SW	5	0	3	r	*	39	26	0.35
	Christiansund ...	30.47	40	ESE	2	c	30.53	+.57	40	39	+3	WSW	4	0	4	c	*	41	37	-
	Skudesnaes ...	30.51	39	NNE	2	b	30.63	+.33	34	33	-6	NE	2	b	1	b	*	45	34	*
	Færder (Christiania Fjord)	30.44	36	NNW	2	b	30.52	+.45	30	27	-8	NNW	2	c	1	b	*	39	30	-
	Skagen (The Scaw)	30.43	39	NNE	4	b	30.55	+.47	36	34	-1	N	1	bc	0	b	*	41	34	-
	Fanö	30.48	34	NNE	1	b	30.59	+.39	29	29	-9	NE	2	b	*	b	*	39	28	-
	Sumburgh Head	30.44	40	NE	1	b	30.49	+.14	41	39	+3	SE	3	bc	4	b	*	47	35	-
	Stornoway ...	30.89	41	S	0	b	30.23	-.09	43	42	+9	SE	3	0	3	b	7.5	49	32	-
	Wick	30.43	40	S	3	b	30.40	+.04	42	40	+9	S	5	c	4	b	*	45	31	-
	Nairn	30.41	35	S	0	m	30.36	-.01	41	38	+16	SE	1	0	1	m	*	42	22	-
	Aberdeen ...	30.47	37	ESE	2	c	30.47	+.06	42	40	+13	SE	3	cg	4	bc.c	1.5	42	29	-
BRITISH ISLANDS.	Leith	30.38	41	E	3	0	30.37	-.03	41	39	+6	E	4	0	*	0	*	47	34	-
	Shields	30.39	42	E	4	c	30.42	+.06	42	40	0	SE	3	c	4	0.c	*	45	40	-
	Spurn Head ...	30.30	43	ENE	6	b	30.34	+.11	42	40	-1	ESE	6	b	5	b	*	44	41	-
	York	30.34	42	E	2	c	30.42	+.09	40	39	-1	E	1	b	*	0.c	0.0	44	38	-
	Loughborough ...	30.26	43	ENE	3	0	30.37	+.10	39	38	-3	ESE	3	cm	*	om.dp.c	*	45	38	0.02
	Ardrossan ...	30.28	41	NE	4	of	30.31	-.04	42	41	+10	ENE	3	cm	2	cf.of	*	44	32	-
	Malin Head ...	30.18	41	SE	6	r	30.14	-.13	43	42	+6	SE	5	ogm	4	c.r	*	43	36	0.03
	Belmullet ...	30.09	41	E	5	om	30.10	-.13	42	41	+4	ESE	1	b	*	o.om	*	44	38	0.02
	Donaghadee ...	30.21	42	ESE	6	r	30.25	-.06	44	43	+3	SE	8	c	6	r	*	44	38	0.65
	Liverpool (Bidston)	30.19	42	ENE	7	r	30.34	+.08	39	37	-4	E	3	c	?	opm	*	45	38	0.02
	Holyhead ...	30.12	44	E	3	rm	30.23	+.02	42	41	-1	NE	1	bc	1	rm	*	46	41	0.51
	Parsonstown ...	30.02	41	E	1	r	30.14	-.03	46	45	+7	SE	1	or	*	o.r	0.0	48	38	0.04
	Valencia ...	29.97	43	ENE	2	o	30.05	-.03	50	47	+6	E	3	o	3	o	0.2	50	39	-
	Roche's Point ..	29.94	47	ESE	4	o	30.13	+.03	48	48	+5	SE	5	m	4	o.m	*	48	41	0.05
	Pembroke (St. Ann's Hd.)	30.03	46	ESE	5	r	30.17	+.11	43	42	0	ESE	6	c	4	r	0.0	46	41	0.62
	Scilly	29.96	51	SE	3	c	30.01	+.06	49	48	+1	E	6	m	3	cm	2.1	53	47	-
	Prawle Point ...	30.08	46	ESE	4	f	30.16	+.10	44	43	-2	E	5	og	4	rf.m	*	48	43	0.02
	Jersey (St. Aubin's)	30.06	49	ESE	3	o	30.14	+.05	45	44	-2	E	4	om	3	o	*	49	43	-
	Hurst Castle ...	30.13	47	ENE	4	ogm	30.22	+.09	44	42	-2	ENE	4	om	3	ogm	*	47	43	-
	Dungeness ...	30.18	46	ENE	4	o	30.27	+.10	41	40	-5	E	5	bc	4	om	*	47	40	-
	North Foreland																*			
	London (Brixton) ...	30.21	45	ENE	5	o	30.30	+.10	41	40	-3	E	4	b	*	oga.q	0.0	46	40	0.01
	Oxford	30.23	44	E	3	o	30.32	+.10	39	38	-4	ENE	2	b	*	o.a	*	47	39	-
	Cambridge ...	30.27	45	E	4	om	30.38	+.13	38	38	-5	E	3	bom	*	om	0.0	47	35	-
	Yarmouth ...	30.28	43	E	5	bc	30.40	+.16	40	38	-3	E	7	bc	6	cgm.bo	*	44	39	-
GERMANY & HOLLAND.	Cuxhaven ...	30.30	39	NW	2	b	30.49	+.26	33	32	-7	NE	2	b	*	b	*	41	32	-
	Berlin	30.21	40	NW	3	o	30.39	+.21	36	33	0	NW	4	c	*	o	*	43	36	-
	Wiesbaden ...	*	*	*	*	*	30.40	+.16	39	35	+4	NE	2	bc	*	*	*	41	34	-
	Munich... ..	30.22	35	SE	2	f	30.32	+.10	33	32	+2	NW	5	o	*	f	*	39	30	0.04
	The Helder ...	30.34	42	NE	2	c	30.48	+.24	37	34	-6	E	4	b	2	c	*	43	37	-
BELGIUM.	Brussels ...	*	*	*	*	*	30.38	+.13	33	32	-8	ENE	4	c	*	o	*	44	32	-
	Cape Gris Nez ...	?	45	E	5	m	?	?	37	35	-10	ESE	5	m	4	m	*	50	34	-
	Paris	30.15	44	NNE	2	m	30.22	+.05	40	39	+1	E	3	m	*	m	*	50	40	-
	Brest	30.00	48	S	0	m	30.01	.00	46	45	-3	E	2	b	2	m	*	56	43	-
	Lorient	30.05	51	E	1	b	30.05		44	44		E	5	m	4	b	*	55	43	-
FRANCE &	Rochefort ...	30.00	56	SSW	2	b	30.00	-.04	46	44	0	SE	3	b	*	b	*	66	43	-
	Belfort	30.21	35	ENE	4	f	30.28	+.09	33	33	-1	ENE	5	f	*	f	*	47	32	-
	Lyons ...	30.12	56	SW	1	b	30.19	.00	40	40	+3	SSW	1	ofw	*	b	*	62	37	-
	Nice																*			
	Perpignan ...	30.11	52	SE	1	b	30.12	-.03	43	43	-5	S	0	b	*	b	*	61	41	-
	Biarritz ...	29.93	63	SSE	2	b	29.98	-.04	60	52	+5	S	3	c	2	b	*	68	55	-
PENINSULA.	Corunna ...																*			
	Lisbon	29.96	53	SSE	3	o	29.88	-.15	51	50	+1	SE	4	r	*	o	*	59	51	0.39
	Azores (P. Delgada)	29.91	52	WNW	2	o	29.89	+.13	56	52	+4	SW	3	o	4	o	*	59	52	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

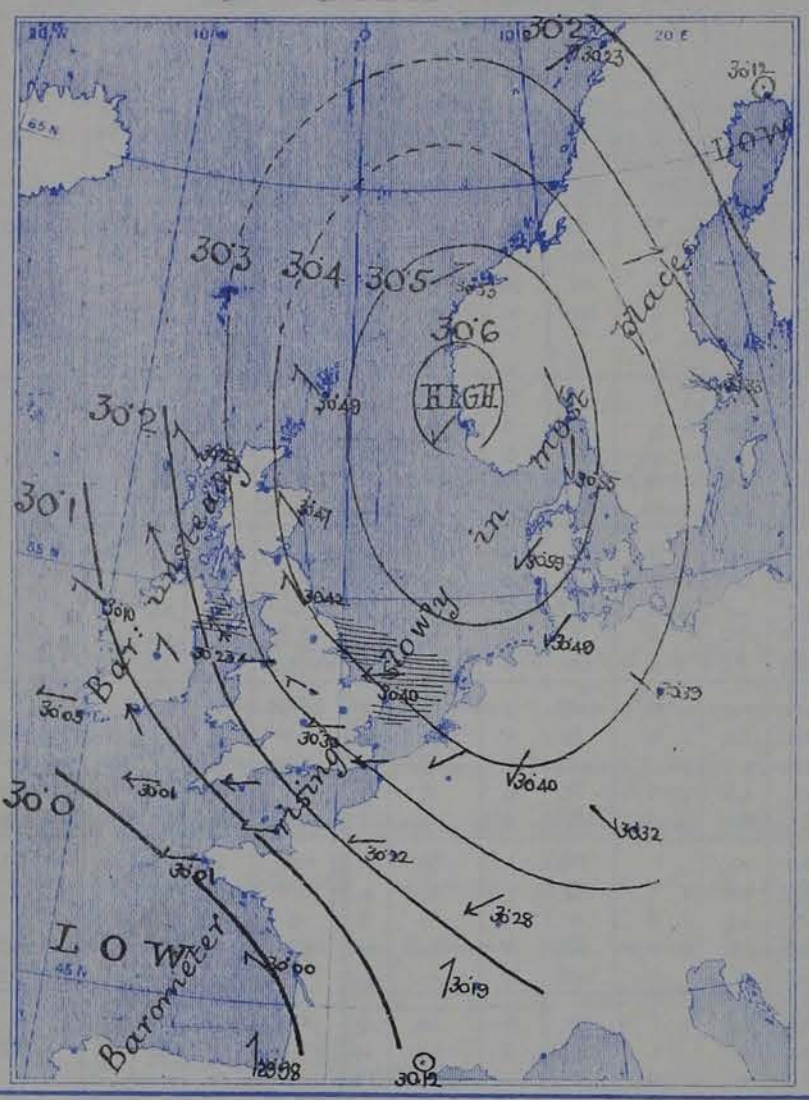
Bright Sunshine yesterday Southport 0.0 hrs;

WEATHER CHARTS

FOR *Tuesday, 21st February,* 1899.

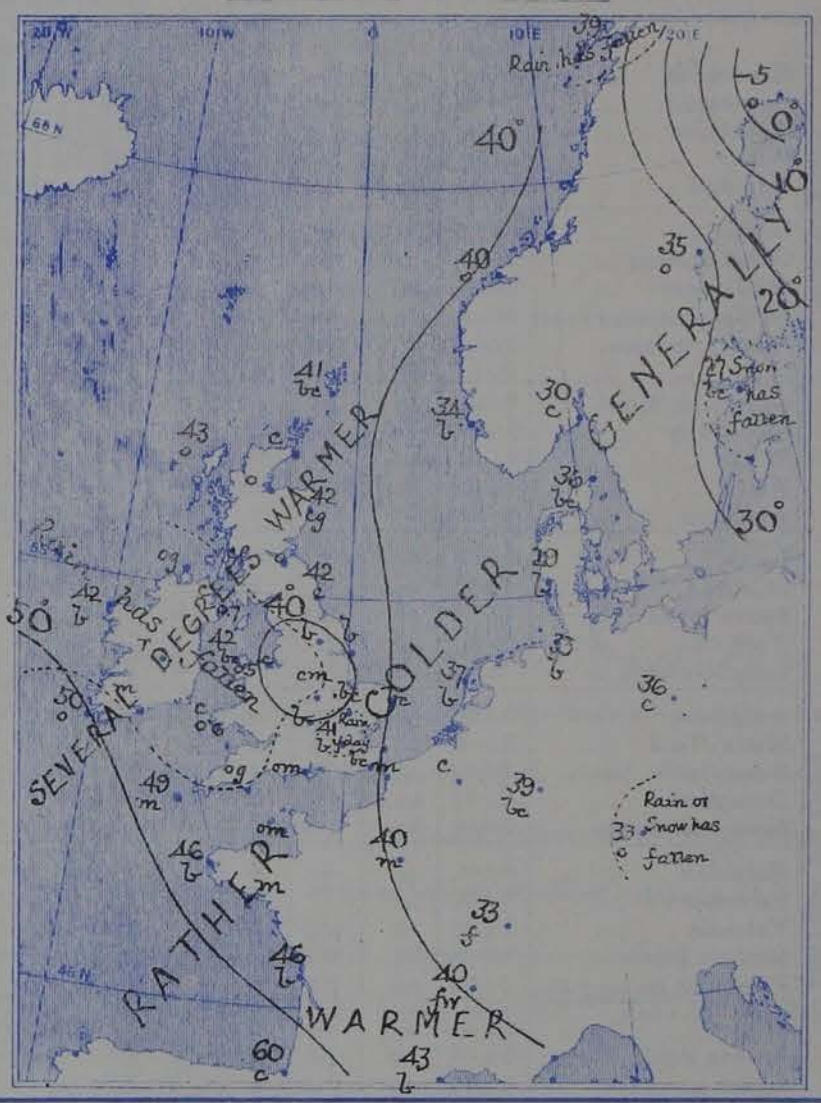
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ➔ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ➔ ; *Force 1 to 4* ⟶ ; Calm ⊙
SEA—Rough ▤ : *High* ▩



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1.65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.63 ins. at Shetlandnaes; 30.4 ins. and upwards in an anticyclone embracing the whole of the North Sea, the E. coasts of Gt. Britain, the Netherlands, N. Germany, Denmark and all the more S. parts of Scandinavia.
Lowest 29.9 ins. and less in a depression lying off the Portuguese coast.
Gradients moderate or slight generally.
Barometer rather unsteady on the W. coasts of our Islands and France, rising in most other parts of our area.

TEMPERATURE

Highest 60° at Biarritz, 51° at Lisbon, 50° at Valencia (Ireland) 49° at Scilly, and 48° at Roche's Point.
Lowest −5° F. at Haparanda, +26° at Karlstad, 27° at Stockholm, & 29° at Fano; lowest in our Islands 38° at Cambridge.
During yesterday the thermometer rose to 45° and upwards in many parts of the United Kingdom, to 50° at Valencia (Ireland), and to 53° at Scilly.

WIND

E. or SE. over the greater part of our Islands, France and the Netherlands, and strong in force on many of the English and Irish coasts, with a gale at Donaghadee.
W. or SW. over the northern parts of Scandinavia; N. or NW. over the south of Scandinavia, and also over Denmark and Germany.

WEATHER

Fair or fine over W. Europe as a whole, but cloudy and misty over Ireland, Scotland and the English Channel, with rain at Parsonstown. Fog or mist was reported also over central France and rain at Lisbon.
Rain fell yesterday in many parts of Ireland and England, the largest amounts being 0.7 in. at Donaghadee, 0.6 in. at Pembroke, and 0.5 in. at Holyhead. Over England the amount was very slight.

SEA

Rough off the E. coasts of England and also at Donaghadee, but moderate or slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is at present inclined to extend W.wds, but the unsteadiness of the barometer on our W. and SW. coasts seems to show that fresh depressions may shortly appear in those regions. Some further increase in the gradients for E. winds is probable over our Islands.

FORECASTS

For the 24 hours ending at NOON on 22ND FEBRUARY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SE. winds moderate or fresh cloudy, slight rain locally.	↑ 6 SCOTLAND WEST	Same as No. 1.
↑ 1 SCOTLAND EAST	E. and SE. winds, freshening, cloudy, slight rain locally.	↑ 7 ENGLAND N.W.	E. and SE. winds, fresh or strong; cloudy, some rain.
↑ 2 ENGLAND N.E.	Same as No. 5.	8 ENGLAND S.W.	SE. winds, strong, a gale in places, cloudy, some rain.
↑ 3 ENGLAND EAST	E. winds, moderate or fresh, fair generally.	↑ 9 IRELAND NORTH	Same as No. 8.
4 MIDLAND COUNTIES	E. winds strong on coast, fair generally, but dull in places.	10 IRELAND SOUTH	At 7.20 pm yesterday to districts 1, 2, 3, 6, 7 and 9 Hoist North Cone.
5 ENGLAND SOUTH		WARNINGS	

Note. The **South Cone**, *point downwards* (↑), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·40	45	41	NNW	4	b	2
Sumburgh Head	30·42	46	43	NNW	1	b	3
Stornoway	30·34	49	46	SSE	2	b	2
Aberdeen	30·44	42	40	S	1	bc	1
Shields	30·39	44	42	SE	3	o	3
Ardrossan	30·31	44	43	NE	5	cf	2
Malin Head ...	30·25	41	40	SSE	6	e	3
Belmullet	30·15	44	42	E	4	o	*
Holyhead	30·14	43	42	ENE	5	gmr	4

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·02	44	41	ENE	3	o	4
Scilly	29·95	52	51	SSE	4	m	3
Jersey	30·08	47	47	E	4	o	3
Hurst Castle ...	30·13	47	46	E	3	ogm	3
Dungeness ...	30·18	47	46	ENE	3	w	3
North Foreland							
London (Westminster)	30·20	47	45	ENE	4	ogm	*
Yarmouth ...	30·25	44	42	ENE	4	ogm	4
Rochefort ...	30·04	64	61	SE	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine in Scotland and the N. of Ireland, as well as in most parts of S^rn. and SE^rn. Europe. Cloudy or dull elsewhere, with fog or mist on many parts of our own W^rn. and S^rn. coasts; and rain at the mouth of the St. Georges Channel; Rain falling also at Karlstad, and snow at Stockholm, Hangö and Moscow. Rain falling later in many parts of Ireland and England; heavily over the Irish Sea and St. George's Channel.

Temperature changed little and irregularly. Morning reading highest 59° at Bilbao, 58° at Malta, and 57° at Cagliari and Algiers; above 50° at most of the Mediterranean and Spanish coast stations. Lowest 1° at Haparanda, 6° at Moscow and Kharkov, and 13° at Archangel; below the freezing point over Sweden, Russia and Austria generally, and also in Scotland. Rising during day to 45° and upwards in many parts of the United Kingdom, and to 53° at Scilly; exceeding 60° in the W. and S. of France, and reaching 68° at Biarritz.

Wind light to fresh from the E^rly. over the greater part of our Islands, the Netherlands and the north of France, but calm in the north of Scotland. N^rly. or NW^rly. over Sweden, Denmark, N. Germany and the south of Norway; calm in Austria and S. Germany; variable in Russia. Chiefly N^rly. in Italy; calm or light from the S^rly. over the southern parts of France. No important change occurring later.

Barometer highest 30.4 ins. and upwards in the central parts of an anticyclone lying over the E. of Scotland, and also in another system over the S. of Russia. Lowest 30.0 ins. and less in a large depression lying over the Bay of Biscay and the NW. of Spain, and also in a smaller disturbance over the N^rn. part of the Baltic. Depression over Bay of Biscay subsequently spreading N^wds., and barometer falling on our own W^rn. coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 22nd February, **1899.**

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·22	10	W	0	f	30·31	+·19	4	3	+4	W	0	c	#	f	#	21	-5	-
	Hernösand ...	30·29	40	W	2	b	30·29	+·02	38	36	+3	W	4	c	#	b	#	41	18	-
	Stockholm ...	30·28	36	NNE	2	0	30·28	-·05	36	35	+4	N	2	0	#	0	#	41	23	-
	Wisby	30·26	36	NNW	4	b	30·25		39	37		NNE	6	0	#	b	#	39	28	-
	Karlstad ...	30·42	36	NW	2	b	30·38	-·09	31	29	+5	NW	2	bc	#	b	#	#	#	-
	Bodö	30·26	39	SW	6	r	30·30	+·07	38	37	-1	WSW	5	0	3	r	#	39	36	0·32
	Christiansund ...	30·56	41	WSW	4	c	30·39	-·14	37	36	-3	ESE	2	c	4	c	#	41	36	-
	Skudesnaes ...	30·60	35	W	0	b	30·48	-·15	35	32	+1	E	2	b	1	b	#	43	32	#
	Færder (Christiania Fjord)	30·47	36	SW	1	b	30·43	-·09	31	28	+1	NW	2	c	1	b	#	36	28	-
	Skagen (The Scaw)	30·48	37	NNW	1	b	30·42	-·13	36	35	0	N	1	b	0	b	#	41	32	-
	Fanö	30·54	35	NNW	3	b	30·47	-·12	33	32	+4	NW	2	b	#	b	#	43	29	-
BRITISH ISLANDS.	Sumburgh Head	30·36	42	SSE	4	o	30·28	-·21	40	39	-1	S	1	bc	4	o	#	45	36	-
	Stornoway ...	30·23	45	SSW	3	o	30·19	-·04	38	37	-5	SW	3	o	3	o	0·7	46	32	-
	Wick	30·32	40	S	4	bc	30·22	-·18	40	38	-2	S	2	b	1	bc	#	43	38	-
	Nairn	30·32	45	E	1	b	30·25	-·11	27	25	-14	SW	1	b	1	b	#	47	25	-
	Aberdeen ...	30·42	41	SSE	5	cg	30·32	-·15	37	35	-5	S	4	bc g	3	o g g.c g	0·0	43	36	-
	Leith	30·37	44	ESE	2	b	30·34	-·03	30	30	-11	W	0	m	#	b	#	49	29	-
	Shields	30·34	39	ESE	4	bc	30·39	-·03	35	35	-7	S	3	m	3	b.bc	#	45	33	-
	Spurn Head ...	30·41	41	ESE	5	b	30·41	+·02	42	41	0	SE	5	bw	4	b	#	43	40	-
	York	30·43	40	E	2	b	30·41	-·01	35	35	-5	E	1	b	#	b	7·8	48	31	-
	Loughborough ...	30·37	40	E	2	b	30·40	+·03	25	25	-14	W	1	f	#	c.bc.cf	#	48	24	-
	Ardrossan ...	30·30	46	NNE	2	cm	30·30	-·01	35	34	-7	NE	3	bf	2	cm	#	50	33	-
	Malin Head ...	30·20	44	SE	3	cm	30·19	+·05	37	36	-6	SE	4	bm	2	o.cm	#	46	36	-
	Belmullet ...	30·11	45	ENE	1	b	30·15	+·05	43	42	+1	S	1	o	#	bc.b	#	51	40	-
	Donaghadee ...	30·26	47	SE	6	b	30·27	+·02	43	42	-1	SW	5	b	3	b	#	47	41	-
	Liverpool (Bidston)	30·32	44	E	3	b	30·33	-·01	34	33	-5	E	4	b	?	bm	#	48	32	-
	Holyhead ...	30·21	46	E	2	b	30·26	+·03	38	36	-4	SE	1	m	0	bc.b	#	54	35	-
	Parsonstown ...	30·16	45	SE	1	c	?	?	43	42	-3	SE	1	om	#	o.c	0·0	47	39	-
	Valencia ...	30·08	49	ENE	3	om	30·10	+·05	48	45	-2	ESE	3	ogm	4	cm.om	3·6	53	47	-
	Roche's Point ..	30·14	46	SE	5	r	30·17	+·04	48	47	0	SSW	5	r	4	m	#	49	45	0·01
	Pembroke (St. Ann's Hd.)	30·16	43	SE	5	b	30·13	-·04	44	40	+1	SE	5	ogm	4	b	7·0	48	40	-
	Scilly	30·06	48	E	7	o	30·11	+·10	48	46	-1	E	3	om	3	om.o	0·6	51	45	-
	Prawle Point ..	30·15	46	E	5	o	30·20	+·04	43	41	-1	E	4	c	4	o	#	47	41	-
	Jersey (St. Aubin's)	30·12	46	ESE	4	om	30·19	+·05	39	37	-6	ENE	4	bmw	3	o m.b	#	46	37	-
	Hurst Castle ...	30·22	45	E	4	bm	30·27	+·05	42	41	-2	ENE	4	bm	3	bm	#	49	41	-
	Dungeness ...	30·29	45	E	5	b	30·33	+·06	41	40	0	E	5	b	4	b	#	46	38	—
GERMANY & HOLLAND.	North Foreland																#			
	London (Brixton) ...	30·33	41	ESE	5	bc	30·37	+·01	37	35	-4	ENE	2	b	#	bc.b	6·7	48	33	-
	Oxford	30·33	38	E	3	b	30·36	+·04	34	32	-5	NE	1	b	#	b	#	50	32	-
	Cambridge ...	30·38	38	E	3	b	30·41	+·03	30	30	-8	ENE	1	b	#	b	9·1	50	28	-
	Yarmouth ...	30·39	42	ESE	5	b	30·42	+·02	42	40	+2	ESE	4	bw	4	b	#	42	39	-
	Cuxhaven ...	30·54	37	N	2	b	30·43	-·06	37	36	+4	NNW	3	b	#	b	#	41	33	-
	Berlin	30·45	37	NW	4	b	30·32	-·07	31	30	-5	NW	2	bc	#	b	#	41	30	-
	Wiesbaden ...	#	#	#	#	#	30·42	+·02	31	30	-8	E	1	b	#	#	#	43	28	-
	Munich	30·44	29	E	3	c	30·35	+·03	25	24	-8	SE	3	b	#	c	#	37	23	-
	The Helder ...	30·49	39	ESE	2	b	30·47	-·01	36	35	-1	W	0	m	0	b	#	41	34	-
FRANCE & BELGIUM.	Brussels ...	#	#	#	#	#	30·42	+·04	30	28	-3	ENE	3	b	#	b	#	46	28	-
	Cape Gris Nez	?	41	E	5	m	?	?	28	28	-9	E	5	m	4	m	#	46	?	-
	Paris	30·23	46	ENE	3	bc	30·26	+·04	29	27	-11	NE	1	b	#	bc	#	53	28	-
	Brest	30·04	50	ESE	2	b	30·09	+·08	41	40	-5	E	2	b	2	b	#	57	37	-
	Lorient	30·08	45	E	5	m	30·10	+·05	39	38	-5	E	4	b	5	m	#	48	37	—
	Rochefort ...	30·00	55	NE	1	c	30·01	+·01	40	38	-6	ENE	4	b	#	b.c	#	64	37	-
	Belfort	30·27	38	ENE	6	o	30·28	·00	29	27	-4	ENE	6	b	#	o	#	39	28	-
	Lyons	30·13	44	N	1	b	30·22	+·03	32	31	-8	N	1	o	#	b	#	40	32	-
	Nice	30·04	50	E	4	c	30·13	-·06	45	44	-4	E	3	bc	3	c	#	55	43	-
	Perpignan ...	30·03	53	E	1	c	30·05	-·07	50	50	+7	W	0	b	#	c	#	67	43	-
	Biarritz ...	29·96	58	ENE	3	c	29·95	-·03	53	49	-7	E	2	c	2	c	#	68	50	0·04
PENINSULA.	Corunna ...																#			
	Lisbon	29·93	57	NW	4	r	30·03	+·15	52	51	+1	W	0	0	#	r	#	54	50	1·26
	Azores (P. Delgada)																#			

For Explanation of Columns, see bottom of last page. *† Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

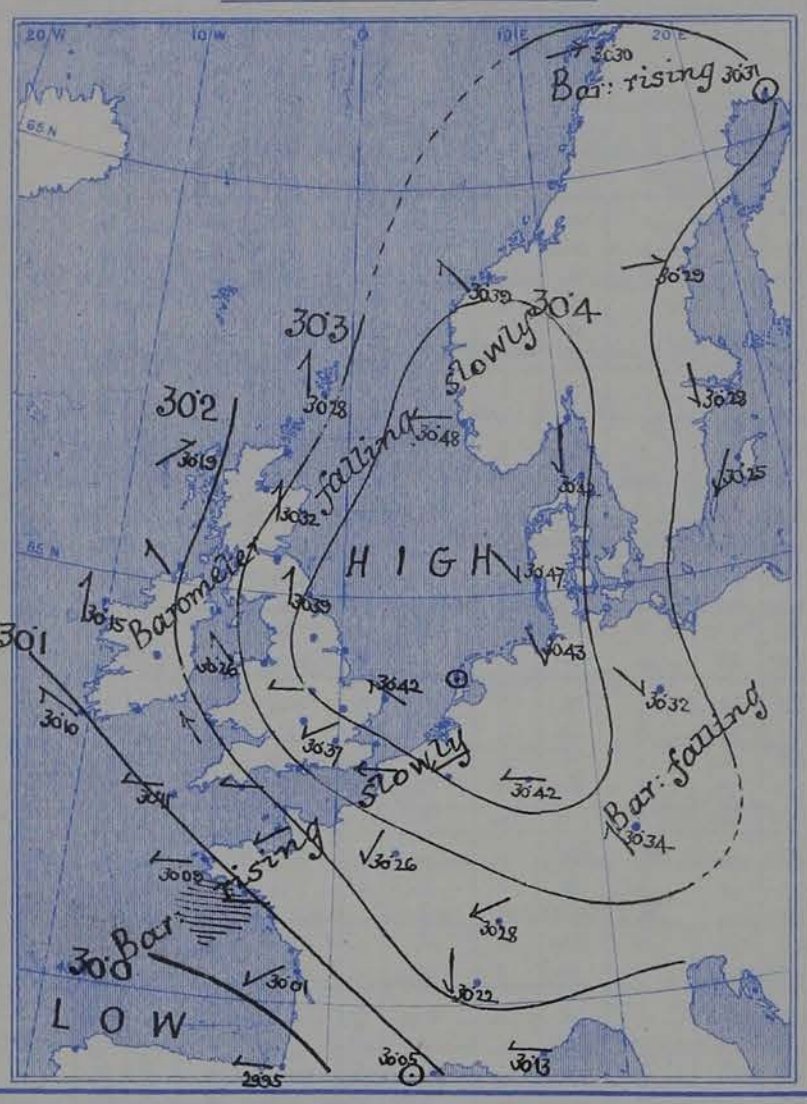
Bright Sunshine yesterday Southport 7·1 hrs;

WEATHER CHARTS

FOR Wednesday 22nd February, 1899.

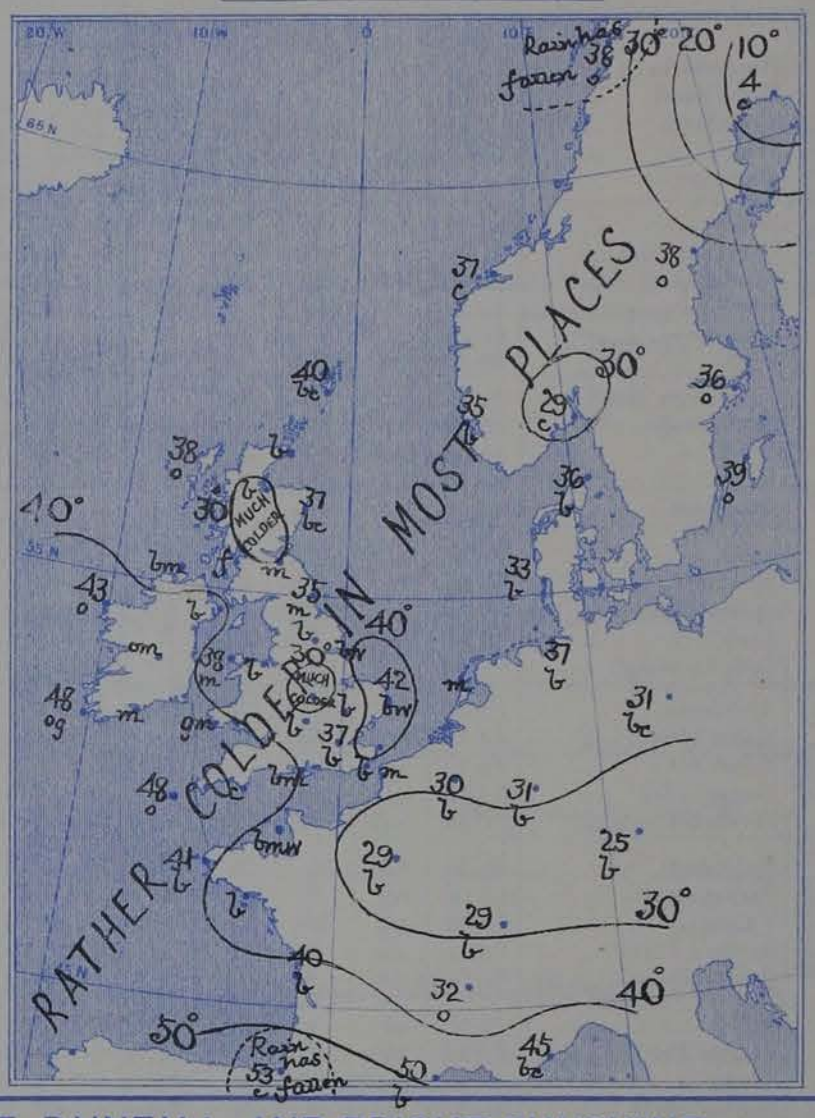
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF FEBRUARY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Means of Wet Bulb 8 a.m.	Means of Daily Maximum.	Means of Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 ins. and upwards in an anticyclone with its central area over the S. of Norway, Denmark, the Netherlands, the North Sea and the E. of England.
Lowest 30.0 ins. and less in a large shallow depression over Spain & the SW. of France.
Gradients slight. Barometer rising a little over the S. of our Islands and the Nrn. parts of France, falling in most other localities.

TEMPERATURE

Highest 53° at Biarritz, 52° at Lisbon, 50° at Perpignan, and 48° at Valencia (Ireland) Rocks Pt. & Scilly.
Lowest (1) 4° at Haparanda; (2) 25° at Loughborough, and 27° at Nairn; (3) 25° at Munich, and 29° at Paris and Belfort.
Frost occurred last night in many parts of Gt. Britain, the lowest temperatures reported being:- (1) In the screen 24° at Loughborough, 25° at Nairn, & 28° at Cambridge; (2) on the grass 17° at Loughborough, 25° at Oxford, and 28° in London.

WIND

Light to fresh from the E.ly over the greater part of England, France and the Netherlands; S.ly (SE.ly to SW.ly) in Ireland and Scotland.
E.ly in the west of Norway; N.ly or NW.ly in Denmark, north Germany & the south of Sweden.

WEATHER

Fine over Wrn. Europe generally, but dull and misty on our SW. coasts, and foggy at Loughborough and Ardrossan.
Cloudy or dull also at most of the Swedish stations.
Heavy rain fell yesterday at Lisbon, and small quantities at Bodö and Biarritz, but in all other parts of our area the weather remained very dry.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is moving slowly southwards, and is beginning to disperse. No immediate change in the weather is anticipated, but low pressure systems will probably appear before long off our W. and NW. coasts.

FORECASTS

For the 24 hours ending at NOON on 23RD FEBRUARY 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S.ly and SW.ly winds moderate; fair at first, cloudy later, probably some rain.
1 SCOTLAND EAST	S.ly winds, moderate or fresh; fair generally.
2 ENGLAND N.E.	
3 ENGLAND EAST	E.ly winds, light or moderate; fine generally, frost at night.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	E.ly or SE.ly winds, light; fair generally, but some mist or fog.
7 ENGLAND N.W.	
8 ENGLAND S.W.	E.ly and SE.ly winds, moderate; fair generally.
9 IRELAND NORTH	S.ly and SE.ly winds, freshening; cloudy, some rain.
10 IRELAND SOUTH	
WARNINGS	At 10.20 am. today to districts 1, 2, 3, 6, 7 and 9. Lower Cone.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·63	42	37	E	0	b	1
Sumburgh Head	30·44	43	41	SE	3	0	5
Stornoway	30·23	46	44	SSW	4	0	4
Aberdeen	30·44	42	40	SSE	5	ogq	5
Shields	30·45	44	41	ESE	4	b	4
Ardrossan	30·31	49	46	ESE	3	c	2
Malin Head ...	30·21	45	44	SE	5	0	3
Belmullet	30·13	51	49	SE	3	bc	*
Holyhead	30·24	52	48	E	1	bc	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·05	52	49	NE	4	cm	4
Scilly	30·06	50	48	E	7	o	3
Jersey	30·14	46	45	E	4	o	3
Hurst Castle ...	30·19	49	44	E	5	bm	3
Dungeness ...	30·27	46	45	E	5	b	4
North Foreland							
London (Westminster)	30·32	46	40	ESE	5	bc	*
Yarmouth ...	30·42	41	38	ESE	5	b	6
Rochefort ...	30·04	63	61	SE	1	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair or fine over W^rn. and N^rn. Europe generally, but cloudy and misty over Ireland, Scotland and the English Channel, and rainy at Parsonstown. Dull over the Spanish Peninsula, with rain at Lisbon; cloudy or dull also in most parts of Germany, Austria and Russia, with snow at Archangel and Moscow. No important change occurring over W^rn. Europe later, but heavy rain falling at Lisbon and small quantities at Biarritz and Christiansund.

Temperature rose in Ireland, Scotland and the W. of Norway, fallen elsewhere. Morning readings highest 61° at Algiers, 60° at Biarritz, 58° at Sanguinaire, and 53° at Barcelona and Malta; touching 50 at Valencia (Ireland). Lowest −5° F. at Haparanda, +6° at Kharkov, and 12° at Archangel and Kuopio, below the freezing point over Sweden, Denmark and Russia generally, and below 40° over central England. Rising during day to 45° and upwards in most parts of the United Kingdom and to 50° and upwards at some of our W^rn. stations. Exceeding 60° in the S. of France, and reaching 68° at Biarritz.

Wind E^ly. or SE^ly. over the greater part of our Islands, France, the Netherlands and the Spanish Peninsula, and strong in force on many of the English and Irish coasts. W^ly. over the northern parts of Scandinavia; N^ly. over Denmark, N. Germany, the Baltic and the south of Scandinavia, with a gale at Neufahrwasser; NW^ly. over S. Germany and Austria, S^ly. over the central and southern parts of Russia. Calm or variable over the south of France and northern Italy, NW^ly. over southern Italy. No important change occurring later.

Barometer highest 30.63 ins. at Skudesnaes, 30.2 ins. and upwards in an anticyclone embracing nearly the whole of N^rn. and central Europe and Gt. Britain, and also in another system over the Mediterranean. Lowest 29.9 ins. and less in a depression off the Portuguese coasts; 30.0 ins. and less in a large shallow area over W^rn. and central Russia. No important change occurring over W^rn. Europe during day.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 23rd February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·39	12	NW	0	c	30·45	+·14	15	13	+9	SW	2	0	*	c	*	19	-4	-
	Hernösand ...	30·35	34	NW	0	f	30·43	+·14	31	30	-7	W	0	0	*	f	*	41	31	0·12
	Stockholm ...	30·35	30	NW	0	b	30·42	+·14	26	24	-10	E	2	0	*	b	*	39	26	-
	Wisby	30·32	30	NE	4	bc	30·37	+·12	30	29	-4	ENE	4	0	*	bc	*	39	28	-
	Karlstad ...	30·31	35	N	2	c	30·36	-·02	35	33	+4	ENE	2	0	*	c	*	*	*	-
	Bodö	30·34	37	ESE	1	c	30·34	+·04	33	30	-5	E	2	c	1	c	*	39	32	-
	Christiansund ...	30·37	39	ESE	1	c	30·28	-·11	34	32	-3	E	2	b	4	c	*	41	34	-
	Skudesnaes ...	30·37	41	SW	2	c	30·26	-·22	38	36	+3	E	2	0	2	b.c	*	43	32	*
	Færder (Christiania Fjord)	30·31	33	NNE	1	b	30·33	-·10	31	30	0	NNE	4	b	2	b	*	34	30	-
	Skagen (The Scaw)	30·32	36	W	0	c	30·27	-·15	35	35	-1	SSE	2	c	0	c	*	39	34	-
	Fanö	30·39	35	N	2	b	30·32	-·15	34	33	+1	N	2	b	*	b	*	43	32	-
BRITISH ISLANDS.	Sumburgh Head	30·18	42	S	1	b	30·16	-·12	36	36	-4	W	0	b	3	c.b	*	45	35	-
	Stornoway ...	30·18	44	SW	4	b	30·12	-·07	43	42	+5	SW	3	0	3	b	7·4	43	35	-
	Wick	30·20	43	S	1	b	30·15	-·07	29	29	-11	NNW	1	b	1	b	*	50	27	-
	Nairn	30·21	42	W	0	b	30·18	-·07	29	27	-2	W	0	b	0	b	*	52	24	-
	Aberdeen ...	30·26	39	NSW	2	b	30·20	-·12	32	29	-5	SW	1	bcm	1	b	6·4	44	32	-
	Leith	30·28	37	W	0	b	30·23	-·11	27	27	-3	W	0	f	*	b.f	*	45	25	-
	Shields	30·33	42	SE	1	m	30·28	-·11	34	32	-1	S	3	cm	2	bm.m	*	44	32	-
	Spurn Head ...	30·37	42	SE	4	b	30·32	-·09	41	39	-1	ESE	3	bm	3	b	*	45	35	-
	York	30·35	47	E	1	b	30·32	-·09	32	30	-3	E	1	b	*	b	7·8	53	27	-
	Loughborough ...	30·34	44	ESE	2	b	30·32	-·08	24	24	-1	ENE	1	bm	*	b	*	55	23	-
	Ardrossan ...	30·24	44	W	0	bf	30·21	-·09	34	33	-1	NNE	2	cf	1	bf	*	51	33	-
	Malin Head ...	30·18	44	S	3	bm	30·12	-·07	37	35	0	SE	2	bm	1	bm	*	45	36	-
	Belmullet ...	30·14	47	SSE	3	0	30·08	-·07	42	41	-1	SSE	1	0	*	bc.0	*	50	40	0·01
	Donaghadee ...	30·22	43	SSE	4	b	30·20	-·07	43	42	0	SSW	4	bc	2	b	*	47	32	0·01
	Liverpool (Bidston)	?30·30	46	ESE	2	b	30·25	-·08	34	31	0	SE	3	b	3	b	*	47	31	-
	Holyhead ...	30·23	42	W	0	b	30·20	-·06	39	36	+1	W	0	c	0	bm.b	*	43	36	-
	Parsonstown ...	30·19	43	SE	1	c	30·14	?	33	32	-10	SE	1	bc	*	0.c	0·0	45	30	-
	Valencia ...	30·11	50	SE	3	0	30·10	·00	47	44	-1	SE	3	0g	3	cm.0	0·2	52	44	-
	Roche's Point ..	30·18	47	SSE	5	m	30·13	-·04	48	46	0	S	4	0	4	m	*	49	44	-
	Pembroke (St. Ann's Hd.)	30·18	47	SE	5	b	30·17	+·04	42	41	-2	SE	4	cg	4	b	6·3	47	40	-
	Scilly	30·10	48	E	5	c	30·10	-·01	49	46	+1	S	1	c	2	c	5·0	50	46	-
	Prawle Point ...	30·20	45	E	5	b	30·19	-·01	45	43	+2	SE	2	bc	2	c.b	*	48	43	-
	Jersey (St. Aubin's)	30·15	47	E	5	bc	30·21	+·02	37	36	-2	ESE	1	b.mw	1	b.bc	*	48	35	-
	Hurst Castle ...	30·24	47	E	4	bm	30·23	-·04	43	41	+1	ENE	1	bm	1	bm	*	50	41	-
	Dungeness ...	30·30	45	ENE	4	b	30·26	-·07	45	42	+4	ESE	3	b	3	b	*	48	40	-
GERMANY & HOLLAND.	North Foreland																*			
	London (Brixton) ...	30·36	43	E	4	b	30·29	-·08	34	33	-3	E	2	b	*	b	6·6	52	30	-
	Oxford	30·33	42	E	3	b	30·29	-·07	32	30	-2	NE	1	b	*	b	*	53	29	-
	Cambridge ...	30·38	40	ESE	2	b	30·32	-·09	27	27	-3	ENE	1	bm	*	b	8·6	56	24	-
	Yarmouth ...	30·37	43	ESE	3	b	30·33	-·09	41	40	-1	ESE	2	bw	3	b	*	44	39	-
	Cuxhaven ...	30·36	39	NNW	2	b	30·32	-·11	34	34	-3	NW	2	b	*	f.b	*	41	34	-
	Berlin	30·30	41	NW	2	0	30·26	-·06	34	33	+3	NW	2	f	*	0	*	45	31	-
	Wiesbaden ...	*	*	*	*	*	30·34	-·08	30	29	-1	W	0	b	*	*	*	45	28	-
	Munich	30·29	32	W	0	b	30·28	-·07	27	26	+2	NW	3	b	*	b	*	39	25	-
	The Helder ...	30·41	39	NE	1	b	30·35	-·12	26	26	-10	W	0	f	0	b	*	45	25	-
BELGIUM.	Brussels ...	*	*	*	*	*	30·36	-·06	32	29	+2	ESE	1	b	*	b	*	49	27	-
	Cape Gris Nez ...	?	38	E	5	bc	?	?	37	32	+9	S	2	bc	1	bc	*	46	28	-
	Paris	30·25	46	ENE	2	b	30·27	+·01	29	26	0	NE	1	b	*	b	*	53	28	-
	Brest	30·09	50	W	0	b	30·15	+·06	39	37	-2	E	1	bc	1	b	*	52	36	-
	Lorient	30·10	46	E	4	b	30·18	+·08	41	41	+2	E	3	0	4	b	*	52	39	-
FRANCE &	Rochefort ...	30·03	52	E	3	b	30·12	+·11	45	44	+5	E	3	b	*	b	*	64	37	-
	Belfort	30·25	39	ENE	4	b	30·26	-·02	26	24	-3	ENE	3	b	*	b	*	44	26	-
	Lyons ...	30·20	45	N	1	b	30·25	+·03	32	31	0	N	1	b	*	b	*	53	31	-
	Nice	30·12	49	S	2	b	30·10	-·03	40	37	-5	E	1	b	2	b	*	55	39	-
	Perpignan ...	30·11	53	W	0	0	30·13	+·08	40	40	-10	W	2	b	*	0	*	57	39	0·16
	Biarritz ...	30·01	55	W	0	0	30·08	+·13	51	49	-2	ESE	2	0	2	0	*	61	48	-
PENINSULA.	Corunna ...																*			
	Lisbon	30·15	53	NNW	2	b	30·21	+·18	45	43	-7	NNW	2	f	*	b	*	57	45	2·64
	Azores (P. Delgada)	30·02	54	W	2	c	29·97	+·06	56	52	+1	SSW	3	c	3	c	*	61	52	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 8·1 hrs;

WEATHER CHARTS

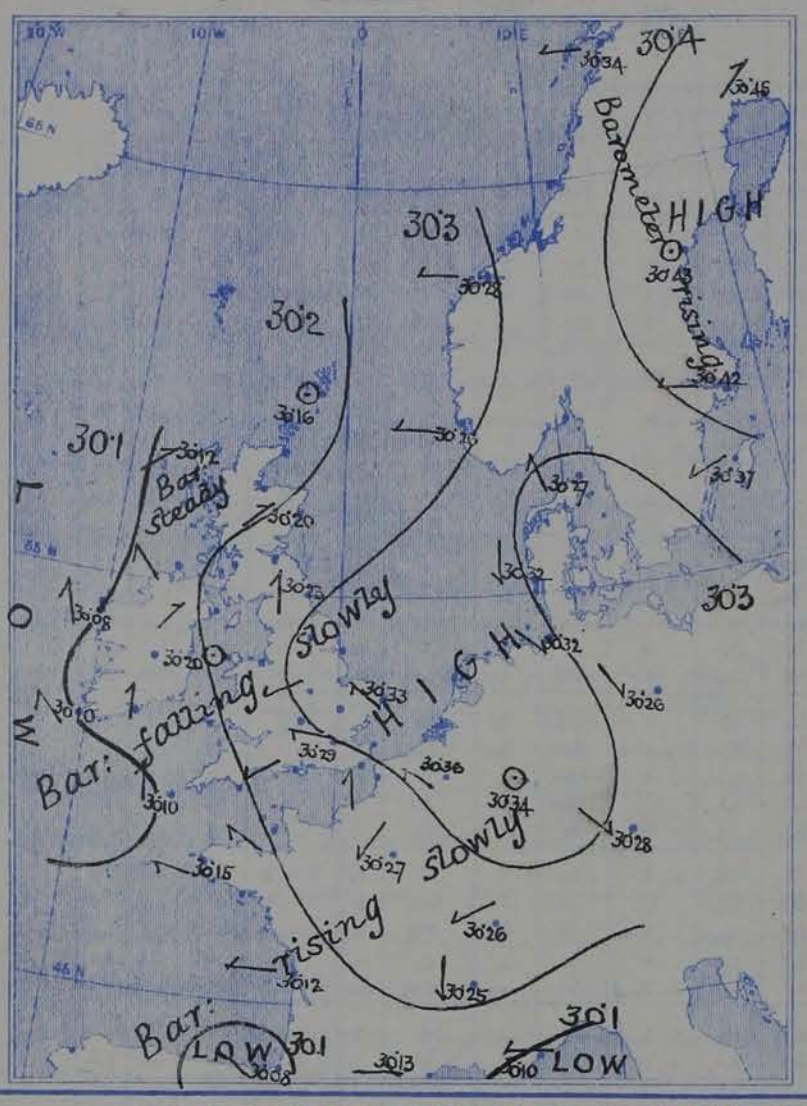
FOR Thursday, 23rd February, 1899.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

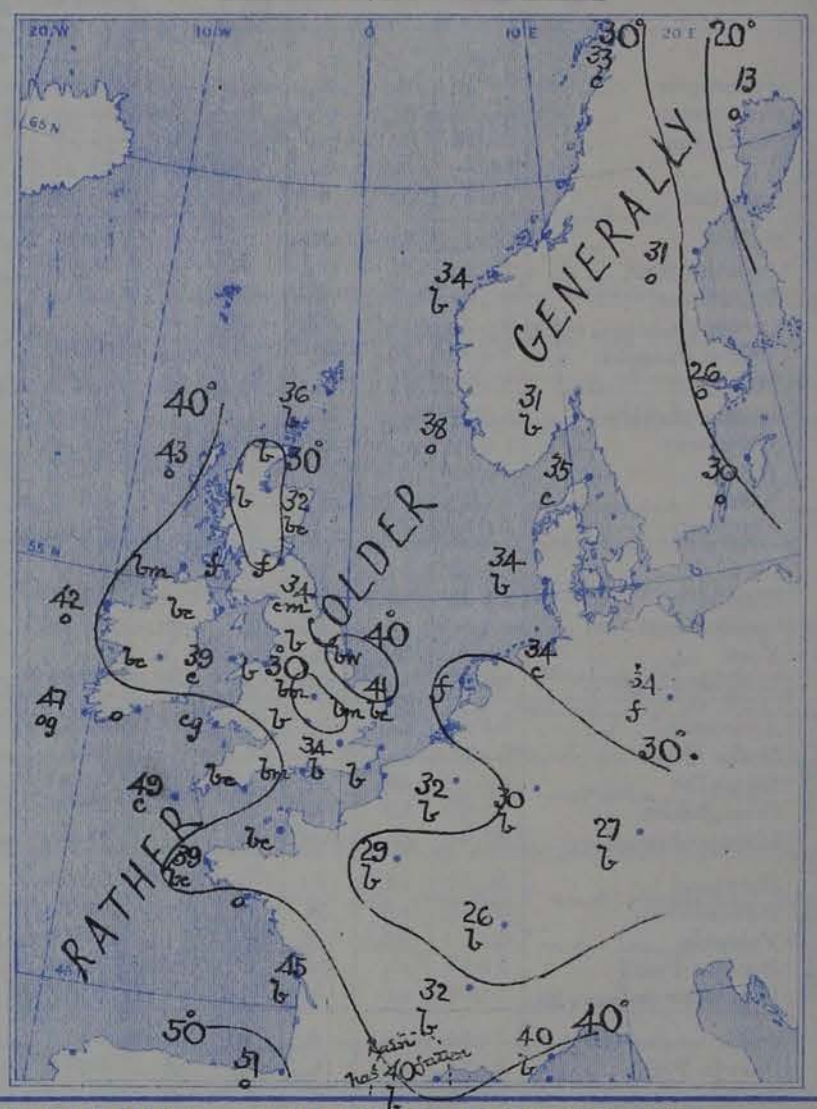
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1·65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 ins and upwards in Sweden; 30.1 ins. and upwards in an anticyclone embracing the whole of western Europe.

Lowest 30.08 ins. at Belmullet and also at Biarritz; 30.10 ins. at Valencia (Ireland) and at Nice.

Gradients slight. Barometer rising a little over France and the Spanish Peninsula and also in Sweden, but falling slightly elsewhere.

TEMPERATURE

Highest (1) 51° at Biarritz; (2) 49° at Scilly, 48° at Roche's Pt., 47° at Valencia (Ireland) 45° at Prawle Pt.

Lowest (1) 13° at Haparanda and 26° at Stockholm; (2) 24° at Loughborough, and 27° at Leith and Cambridge; (3) 26° at Belfort, and 27° at Munich.

Frost occurred last night in many parts of the United Kingdom, the lowest temperatures reported being:—(1) In the screen 23° at Loughborough, and 24° at Nairn and Cambridge; (2) On the grass 17° at Loughborough, and 21° in London and at Oxford.

WIND

Light from the E^wd. over England, France and Belgium, from the SE^wd. in Ireland, and from the SW^wd. in Scotland.

E^ly at most of the Scandinavian stations, variable in Denmark; NW^ly in Germany.

WEATHER

Fine over W^rn Europe as a whole, but with fog or mist in several parts of Gt. Britain.

Dull in the south of Ireland, and also in Sweden.

Heavy rain again fell yesterday at Lisbon (as much as 2.6 ins.) and small quantities at Perpignan and also at Hernösand. Over W^rn Europe generally the weather remained very dry.

SEA

Slight or smooth on nearly all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone continues to give way slowly, but there are at present no signs of the advance of any depression towards our coasts, so that fair weather is likely to continue for a time in most districts.

FORECASTS

For the 24 hours ending at NOON on 24TH FEB. 1899.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S^ly and SW^ly winds, light; fair generally.
2 ENGLAND N.E.	S^ly and SE^ly winds, light; fair generally, but some mist or fog.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	E^ly winds, light; fair generally, but some mist or fog.
6 SCOTLAND WEST 7 ENGLAND N.W.	Variable or E^ly airs; fair generally, but some mist or fog.
8 ENGLAND S.W.	SE^ly winds, light or moderate; fair generally.
9 IRELAND NORTH 10 IRELAND SOUTH	SE^ly winds, moderate or fresh; dull, rain locally.
WARNINGS	None issued.

Note. The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to S.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·44	42	40	SW	2	b	2
Sumburgh Head	30·23	43	41	S	1	c	4
Stornoway	30·17	48	45	S	3	b	3
Aberdeen	30·28	44	40	SSW	2	b	3
Shields	30·37	47	42	SSW	3	bm	3
Ardrossan	30·27	50	45	N	0	bf	2
Malin Head ...	30·19	44	42	S	4	om	3
Belmullet	30·14	50	47	S	3	bc	*
Holyhead	30·26	47	44	NW	1	bm	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·10	51	47	E	2	cm	4
Scilly	30·13	49	46	E	5	c	3
Jersey	30·17	43	43	ENE	5	b	3
Hurst Castle ...	30·26	49	44	E	5	bm	3
Dungeness ...	30·32	48	44	ENE	4	b	3
North Foreland							
London (Westminster)	30·35	51	43	E	4	b	*
Yarmouth ...	30·41	44	42	ESE	3	b	4
Rochefort ...	29·98	59	54	E	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over Europe as a whole, but dull and misty on our own SW. coasts. Cloudy or dull in Sweden and Russia, with snow at St. Petersburg and also at Cracow, rain falling at many of the Spanish stations. No decided change occurring over Wn. Europe later, but heavy rain falling at Lisbon, and a smaller quantity at Perpignan, as well as at Hernösand.

Temperature fallen in most of the Wn. and central countries. Morning readings highest 59° at La Calle, 57° at Sanguinaire, and 56° at Oporto and Malta; above 50° at the Mediterranean and Spanish coast stations generally. Lowest −5° F. at Ulealborg, +4° at Haparanda, 5° at Archangel, and 16° at St. Petersburg and Moscow; below the freezing point over central Europe generally, as well as in many parts of Gt. Britain. Rising during day to 50° and upwards in several parts of the United Kingdom, and to 56° at Cambridge; exceeding 55° also in the W. and S. of France, and reaching 61° at Biarritz.

Wind light to fresh from the Ew. over England, France and the Netherlands; Sly. (SE. to SW.) in Ireland and Scotland, Nly. over Finland, the Baltic, Denmark, N. Germany and the south of Sweden; NWly. over eastern and central Germany and Austria; chiefly Sly. or SEly. over the central and southern parts of Russia. Nly. or NEly. in Italy; Sly. in Algeria. No important change occurring over Wn. Europe during day.

Barometer highest 30·4 ins. and upwards over the North Sea, the S. of Norway, Denmark, the Netherlands and the E. of England; 30·1 ins. and upwards in an anticyclone embracing nearly the whole of Wn. and Nn. Europe. Lowest 29·7 ins. and less in a depression over the S. of Russia; 30·0 ins. and less in another disturbance over the N. of Spain and the Sn. parts of the Bay of Biscay. Anticyclone giving way slowly during day, but general distribution of pressure remaining unchanged.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Friday, 24th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·46	16	SW	2	S	30·32	-·13	24	24	+11	S	2	0	#	S	#	?	3	-
	Hernösand ...	30·56	24	S	2	f	30·54	+·11	22	22	-9	S	2	bc	#	f	#	34	21	-
	Stockholm ...	30·58	24	E	2	0	30·66	+·24	23	22	-3	SW	2	0	#	0	#	30	21	-
	Wisby	30·53	26	E	4	0	30·63	+·26	26	24	-4	ESE	4	0	#	0	#	30	23	-
	Karlstad ..	30·52	31	ENE	2	b	30·63	+·27	27	25	-8	S	2	0	#	b	#	#	#	-
	Bodö	30·33	31	E	2	b	30·29	-·05	32	29	-1	E	2	0	1	b	#	33	28	-
	Christiansund ...	30·33	34	ESE	2	bc	30·44	+·16	34	31	0	ESE	1	bc	4	bc	#	39	34	-
	Skudesnaes ...	30·36	39	SSE	4	S	30·50	+·24	37	35	-1	S	6	b	4	c, S	#	43	34	#
	Færder (Christiania Fjord)	30·48	35	NE	2	0	30·58	+·25	31	30	0	SE	2	bc	2	0	#	35	30	-
	Skagen (The Scaw)	30·47	36	SSE	1	0	30·59	+·32	32	30	-3	S	2	c	0	0	#	37	30	-
	Fanö	30·38	37	ESE	2	0	30·51	+·19	32	31	-2	SE	4	b	#	0	#	43	32	-
	Sumburgh Head	30·14	41	W	0	0	30·22	+·06	39	39	+3	S	1	c	3	m, o	#	44	35	0·01
	Stornoway ...	30·07	47	SSW	4	b	30·15	+·03	44	43	+1	SSW	3	bc	3	b	6·4	51	40	-
	Wick	30·13	43	W	0	b	30·20	+·05	32	31	+3	W	0	b	1	b	#	51	26	-
	Nairn	30·12	35	W	0	m	30·21	+·03	27	25	-2	W	0	b	1	m	#	48	25	-
	Aberdeen ...	30·16	42	SW	2	b	30·26	+·06	30	29	-2	SW	1	bm	1	bm, b	7·6	50	27	-
BRITISH ISLANDS.	Leith	30·19	38	W	0	f	30·28	+·05	29	29	+2	W	0	m	#	f	#	45	26	-
	Shields	30·22	40	SSW	3	cm	30·29	+·01	33	31	-1	SW	2	m	2	b, bm	#	48	32	-
	Spurn Head ...	30·27	42	SE	3	b	30·30	-·02	37	35	-4	SSW	2	b	2	b, bw	#	45	35	-
	York	30·25	44	SE	1	b	30·31	-·01	30	30	-2	SE	1	f	#	b	7·3	48	27	-
	Loughborough ...	30·26	41	SE	1	c	30·30	-·02	28	27	+4	W	0	f	#	bc, c, bm	#	53	24	-
	Ardrossan ...	30·17	44	SE	2	bf	30·26	+·05	39	39	+5	NNE	2	bf	1	bf	#	?49	34	-
	Malin Head ...	30·13	44	S	2	bm	30·16	+·04	42	40	+5	S	3	bm	2	b, bm	#	48	37	-
	Belmullet ...	30·09	49	S	3	0	30·14	+·06	45	44	+3	SSE	2	c	#	b, o	#	52	40	0·01
	Donaghadee ...	30·18	43	SW	3	bc	30·24	+·04	38	38	-5	SW	3	bc	1	bc	#	50	35	-
	Liverpool (Bidston)	30·23	43	SE	1	c	30·28	+·03	40	38	+6	W	0	0	?	cm	#	47	34	-
	Holyhead ...	30·21	45	SSW	1	cm	30·25	+·05	43	42	+4	SE	1	om	0	cm	#	49	36	-
	Parsonstown ...	30·16	47	SE	1	0	30·19	+·05	42	41	+9	SE	1	0	#	c, o	2·6	50	32	-
	Valencia ...	30·12	51	SSE	2	cm	30·13	+·03	50	47	+3	SSE	3	ogd	3	cm	1·6	53	46	-
	Roche's Point ..	30·17	48	S	2	0	30·19	+·06	48	47	0	S	4	o	4	o	#	49	46	-
	Pembroke (St. Ann's Hd.)	30·20	46	SE	3	c	30·25	+·08	44	43	+2	E	2	om	3	c	3·5	47	41	-
	Scilly	30·18	50	SSE	1	om	30·19	+·09	50	47	+1	SSE	3	0	2	o, om	0·0	51	46	-
	Prawle Point ...	30·23	45	WSW	2	bc	30·26	+·07	41	40	-4	N	2	bc	1	bc	#	52	39	-
	Jersey (St. Aubin's)	30·22	50	W	2	bcm	30·25	+·04	47	46	+10	NE	1	of	1	b, bcm	#	53	35	-
	Hurst Castle ...	30·23	45	E	1	bcm	30·26	+·03	41	40	-2	NE	2	cm	1	cm, bcm	#	53	37	-
	Dungeness ...	30·26	45	ESE	3	b	30·29	+·03	41	41	-4	SE	2	c	1	b	#	52	33	-
	North Foreland																#			
	London (Brixton) ...	30·26	46	SSE	2	bc	30·31	+·02	31	30	-3	SE	1	f	#	bf, c, b	3·5	54	29	-
	Oxford	30·27	45	SE	1	bc	30·31	+·02	30	29	-2	NW	1	b	#	bm	#	53	29	-
	Cambridge ...	30·28	42	SE	1	0	30·32	·00	26	26	-1	SW	1	b	#	b, o	7·0	56	23	-
	Yarmouth ...	30·28	43	SSE	3	b	30·30	-·03	42	40	+1	ESE	3	b	3	b	#	45	36	-
GERMANY & HOLLAND.	Cuxhaven ...	30·30	39	W	3	b	30·46	+·14	31	30	-3	E	5	b	#	b	#	41	30	-
	Berlin	30·34	34	NNE	3	c	30·45	+·19	30	28	-4	NE	3	c	#	c	#	39	30	-
	Wiesbaden ...	#	#	#	#	#	30·29	-·05	29	27	-1	SE	2	bc	#	#	#	45	25	-
	Munich... ..	30·26	37	SW	3	c	30·27	-·01	30	28	+3	NW	4	0	#	c	#	39	27	-
	The Helder ...	30·32	30	W	0	f	30·35	·00	31	31	+5	ESE	1	f	0	f	#	39	25	-
BELGIUM.	Brussels ...	#	#	#	#	#	30·36	·00	33	31	+1	W	0	b	#	b	#	50	27	-
	Cape Gris Nez ..	?	?	SE	1	m	?	?	40	36	+3	E	2	bc	1	m	#	54	36	-
	Paris	30·23	43	NE	2	b	30·30	+·03	27	27	-2	NE	2	m	#	b	#	55	27	-
	Brest	30·24	48	N	1	0	30·22	+·07	43	42	+4	ENE	2	0	1	0	#	52	36	-
	Lorient... ...	30·23	48	NW	3	bc	30·23	+·05	44	43	+3	E	3	b	3	bc	#	54	39	-
FRANCE &	Rochefort ...	30·20	53	NW	2	b	30·25	+·13	41	39	-4	E	1	b	#	b	#	61	37	-
	Belfort	30·24	40	ENE	2	b	30·30	+·04	27	26	+1	ENE	4	b	#	b	#	33	26	-
	Lyons ...	30·21	44	NW	1	b	30·26	+·01	30	30	-2	NNW	1	b	#	b	#	51	30	-
	Nice	30·08	47	W	0	b	30·06	-·04	42	39	+2	E	1	b	1	b	#	53	39	-
	Perpignan ...	30·10	57	NW	2	b	30·12	-·01	51	47	+11	SW	2	b	#	b	#	64	40	-
	Biarritz ...	30·16	54	NW	3	0	30·16	+·08	52	50	+1	NW	1	0	2	0	#	57	50	-
PENINSULA.	Corunna ...																#			
	Lisbon	30·21	53	N	2	b	30·20	-·01	47	47	+2	N	3	f	#	b	#	55	45	-
	Azores (P. Delgada)	30·00	56	NSW	3	c	30·02	+·05	55	52	-1	N	3	c	3	c	#	63	54	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 5·0 *hrs;*

WEATHER CHARTS

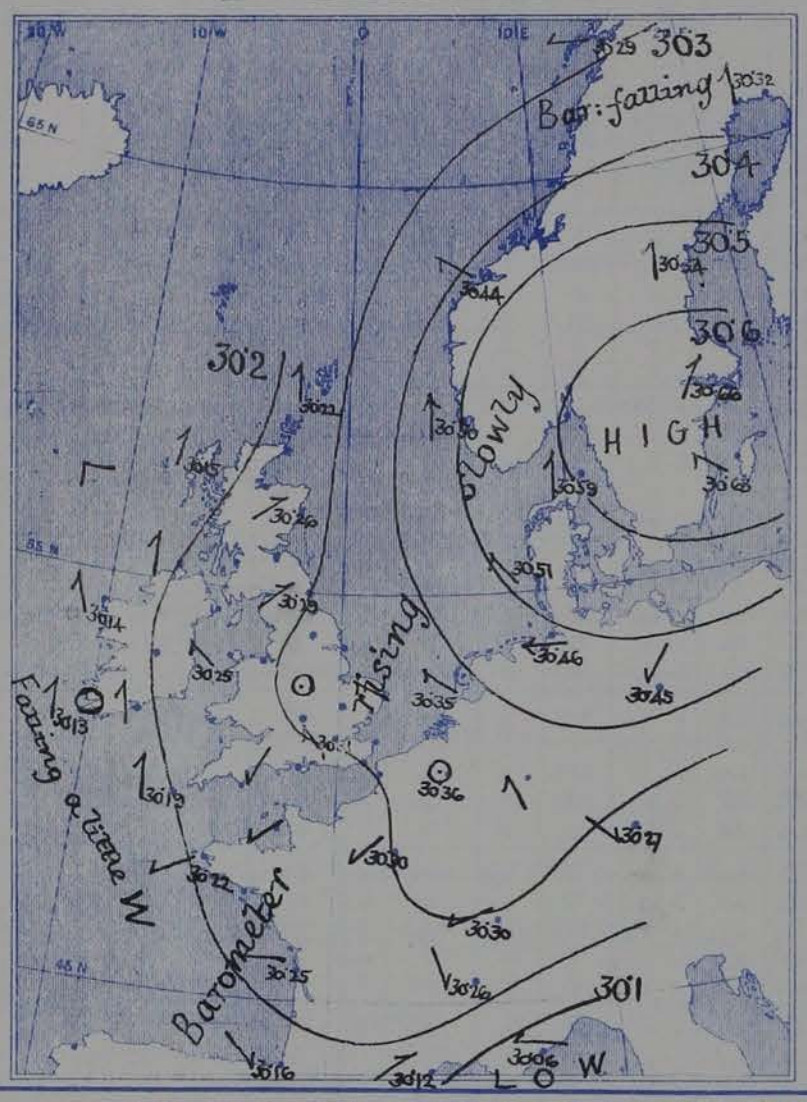
FOR Friday, 24th February, 1899.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

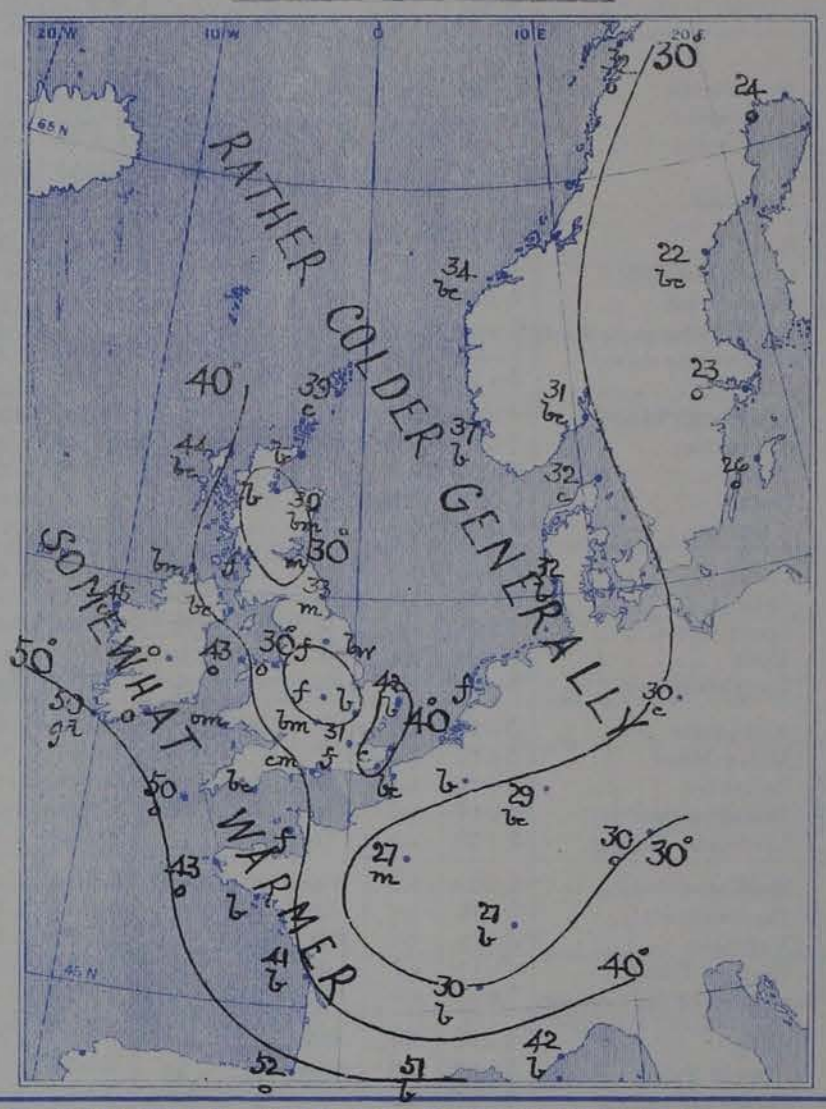
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus —0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of				Absolute Extremes.				RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.	
		Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Maximum	Years.	Minimum.	Years.		Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1.65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.6 ins. and upwards in the S. of Sweden; 30.2 ins. and upwards in an anticyclone covering nearly the whole of W^rn Europe.
Lowest 30.10 ins. and less in the extreme S. of France; 30.13 ins. to 30.15 ins. in the Hebrides & W. of Ireland.
Gradients slight. Barometer rising a little in most places, but falling on our extreme SW. coasts, and also over the N^rn parts of Scandinavia.

TEMPERATURE

Highest (1) 52° at Biarritz, and 51° at Perpignan; (2) 50° at Valencia (Ireland) and Scilly, & 48° at Roches^t
Lowest (1) 22° at Hernösand, and 23° at Stockholm; (2) 26° at Cambridge, and 27° at Nairn; (3) 27° at Paris and Belfort.
Frost was again experienced last night in many parts of the United Kingdom, the lowest temperature reported being (1) in the screen, 23° at Cambridge, and 25° at Nairn; (2) on the grass 23° in London.

WIND

Light from the E^rly or NE^rly over north Germany, the Netherlands, the south of England & the north of France.
Variable over central England and the south of France; light from the S^rly in Ireland and Scotland, and also in Sweden and the south of Norway; E^rly in the west of Norway.

WEATHER

Fine over W^rn Europe generally, but with fog or mist in many parts of Gt. Britain.
Dull over Wales and the S. of Ireland, with drizzling rain at Valencia; dull also in the S. of Sweden.
No rain fell yesterday in any part of our area, but at Eyemouth H^d and Belmullet there was a slight measurement in the guage, due probably to wet mists. Lunar halos were seen last evening in the S. of England.

SEA

Slight or smooth generally, but moderate off the W. of Norway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 25th FEB. 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S^rly winds, moderate, fair generally.	6 SCOTLAND WEST	Same as No^s 3 to 5.
1 SCOTLAND EAST	S^rly winds, light, fair generally, but some mist or fog.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	SE^rly winds, moderate, fair generally.
3 ENGLAND EAST	Light breezes, chiefly E^rly; fair generally, but some mist or fog.	9 IRELAND NORTH	SE^rly and S^rly winds, moderate or fresh, cloudy, some rain.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.) Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.) Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·31	43	39	SSE	4	c	2	Valencia	30·10	51	48	SSE	4	cm	4
Sumburgh Head	30·16	40	40	2	0	m	3	Scilly	30·17	50	47	SSE	1	0	2
Stornoway	30·10	51	48	SE	3	b	3	Jersey	30·23	50	46	E	2	b	2
Aberdeen	30·16	49	42	S	2	bm	1	Hurst Castle ...	30·24	51	47	S	1	cm	1
Shields	30·24	47	41	SSW	2	b	2	Dungeness ...	30·27	50	46	SSE	3	b	3
Ardrossan	30·18	49	47	SE	2	bf	2	North Foreland							
Malin Head ...	30·09	48	45	S	3	b	2	London (Westminster)	30·26	53	43	SE	3	b	
Belmullet	30·07	52	48	S	2	b	*	Yarmouth ...	30·30	45	43	SE	2	b	3*
Holyhead	30·20	47	43	SSW	1	cm	1*	Rochefort ...	30·16	59	55	NW	1	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental information not received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
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DAILY WEATHER REPORT

for 8 a.m. on Saturday, 25th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.29	12	N	0	b	30.25	-.07	11	10	-13	SW	2	bc	#	b	#	25	9	-
	Hernösand ...	30.47	21	N	0	b	30.42	-.12	23	22	+1	N	0	bc	#	b	#	34	10	-
	Stockholm ...	30.66	24	W	2	0	30.57	-.09	24	23	+1	WSW	2	b	#	0	#	27	19	-
	Wisby	30.70	23	E	4	b	30.65	+.02	28	25	+2	WNW	6	0	#	b	#	28	21	-
	Karlstad ...	30.64	25	SW	1	bc	30.60	-.03	28	27	+1	SW	2	0	#	bc	#	#	#	-
	Bodö	30.29	37	ESE	2	r	30.26	-.03	41	40	+9	SW	6	0	4	r	#	41	28	0.24
	Christiansund ...	30.52	38	ESE	2	b	30.52	+.08	34	31	0	ESE	2	b	3	b	#	39	34	-
	Skudesnaes ...	30.57	36	SE	6	0	30.60	+.10	36	32	-1	ESE	4	0	2	0	#	37	34	#
	Færder (Christiania Fjord)	30.60	34	WSW	4	0	30.60	+.02	32	29	+1	WSW	4	0	2	0	#	34	30	-
	Skagen (The Scaw)	30.66	31	SSW	1	bc	30.65	+.06	30	28	-2	W	1	0	0	bc	#	34	27	-
	Fanö	30.62	33	SE	1	0	30.63	+.12	32	29	0	SE	2	c	#	0	#	36	32	-
BRITISH ISLANDS.	Sumburgh Head	30.27	43	S	2	0	30.32	+.10	41	39	+2	S	3	0	4	c	#	46	38	-
	Stornoway ...	30.17	47	SSW	3	bc	30.19	+.04	45	44	+1	SSW	4	c	4	bc	4.3	51	40	-
	Wick	30.23	45	S	2	bc	30.29	+.09	41	39	+9	S	3	bc	3	bc	#	49	30	-
	Nairn	30.24	36	N	0	b	30.29	+.08	32	30	+5	N	0	f	0	b	#	46	25	-
	Aberdeen ...	30.30	40	S	2	bm	30.38	+.12	40	38	+10	SSE	3	fg	4	bm	0.3	46	30	-
	Leith	30.28	40	E	1	m	30.35	+.07	32	31	+3	N	0	m	#	m	#	46	28	-
	Shields	30.31	41	SE	2	m	30.41	+.12	38	37	+5	S	3	m	2	m	#	45	32	-
	Spurn Head ...	30.32	42	ESE	3	b	30.40	+.10	38	36	+1	ESE	4	c	4	b,bw	#	46	36	-
	York	30.30	46	E	1	bm	30.41	+.10	36	35	+6	E	1	cm	#	bm	5.5	50	30	-
	Loughborough ...	30.30	41	SE	1	b	30.39	+.09	35	34	+7	ESE	2	om	#	bm,snw	#	46	28	-
	Ardrossan ...	30.27	43	NNE	2	bf	30.29	+.03	38	37	-1	NE	3	bcf	2	bf	#	46	35	-
	Malin Head ...	30.16	46	SSE	4	om	30.17	+.01	44	42	+2	SSE	4	om	2	om	#	49	41	-
	Belmullet ...	30.09	50	SSE	3	0	30.10	-.04	47	44	+2	SSE	4	0	#	c.o	#	51	44	-
	Donaghadee ...	30.24	46	SSE	3	0	30.27	+.03	44	43	+6	SSE	5	0	3	0	#	47	37	-
	Liverpool (Bidston)	30.28	43	SE	1	b	30.34	+.06	32	31	-8	ESE	4	0	?	b,f	#	47	30	-
	Holyhead ...	30.25	45	N	0	bc	30.27	+.02	38	36	-5	SE	1	m	0	om,bc	#	47	36	-
	Parsonstown ...	30.17	48	SE	1	b	30.18	-.01	44	43	+2	SE	1	0	#	c.o	2.0	54	41	-
	Valencia ...	30.07	51	SE	4	3	30.09	-.04	49	45	-1	SE	5	gmr	3	og	0.0	52	48	0.13
	Roche's Point ..	30.16	48	SSE	4	m	30.16	-.03	48	48	0	SSE	5	m	4	m	#	50	46	-
	Pembroke (St. Ann's Hd.)	30.22	46	SE	2	0	30.23	-.02	41	40	-3	ESE	3	bm	2	c.o	1.4	48	40	-
	Scilly	30.16	49	SE	4	c	30.14	-.05	50	47	0	E	4	c	3	c	1.0	52	47	-
	Prawle Point ...	30.27	47	ENE	2	c	30.23	-.03	47	45	+6	E	2	b	1	c	#	51	40	-
	Jersey (St. Aubin's)	30.22	52	ENE	2	bm	30.25	.00	43	38	-4	ENE	2	bmw	2	bm	#	55	34	-
	Hurst Castle ...	30.25	44	E	1	b	30.29	+.03	38	37	-3	NE	3	bm	1	bm	#	52	38	-
	Dungeness ...	30.28	44	NE	2	b	30.31	+.02	37	36	-4	E	4	m	3	b	#	50	36	-
GERMANY & HOLLAND.	North Foreland																#			
	London (Brixton) ...	30.30	43	SE	2	bcm	30.35	+.04	34	34	+3	N	0	f	#	b,c	1.2	55	30	-
	Oxford	30.31	39	E	2	b	30.36	+.05	33	33	+5	E	1	0	#	bm.o	#	51	27	-
	Cambridge ...	30.32	41	ESE	1	bm	30.39	+.07	26	26	0	E	1	bcm	#	bm	7.0	56	24	-
	Yarmouth ...	30.31	43	ESE	3	b	30.39	+.09	38	35	-4	ESE	5	bc	4	b	#	45	35	-
	Cuxhaven ...	30.54	32	ESE	3	0	30.56	+.10	31	29	0	E	3	0	#	0	#	34	28	-
	Berlin	30.54	30	NE	3	0	30.60	+.15	27	25	-3	E	3	c	#	0	#	34	27	-
	Wiesbaden ...	#	#	#	#	#	30.40	+.11	27	26	-2	NE	3	b	#	#	#	43	27	-
	Munich... ..	30.35	21	SE	3	b	30.34	+.07	20	19	-10	E	5	b	#	b	#	32	16	0.04
	The Helder ...	30.41	36	E	2	b	30.48	+.13	30	28	-1	E	2	b	1	b	#	37	30	-
BELGIUM.	Brussels ...	#	#	#	#	#	30.41	+.05	28	27	-5	E	1	b	#	b	#	51	25	-
	Cape Gris Nez...	?	43	E	3	bc	?	?	28	28	-12	ESE	1	m	1	bc	#	54	27	-
	Paris ...	30.27	45	ENE	2	b	30.28	-.02	28	27	+1	NE	2	b	#	b	#	55	27	-
	Brest	30.18	50	E	1	b	30.17	-.05	41	38	-2	E	2	b	2	b	#	52	37	-
	Lorient ...	30.21	48	S	1	bc	30.17	-.06	39	36	-5	E	4	b	4	bc	#	55	36	-
FRANCE &	Rochefort ...	30.16	48	NW	3	b	30.10	-.15	37	34	-4	E	3	b	#	b	#	?	34	-
	Belfort	30.27	36	E	4	b	30.30	.00	25	24	-2	ENE	5	b	#	b	#	49	24	-
	Lyons	30.15	46	NW	3	b	30.23	-.03	30	28	0	S	1	b	#	b	#	51	27	-
	Nice	30.04	49	S	2	bc	30.12	+.06	39	39	-3	E	6	r	4	bc	#	57	39	-
	Perpignan ...	30.05	55	W	1	b	30.12	.00	37	36	-14	N	0	b	#	b	#	64	35	-
	Biarritz ...	30.06	54	N	2	b	30.08	-.13	49	48	-3	S	3	0	2	b	#	57	48	-
PENINSULA.	Corunna ...																#			
	Lisbon	30.14	53	W	[illegible]	b	30.22	-.18	50	50	+0	W	2	f	#	b	#	63	47	
	Azores (P. Delgada)																#			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

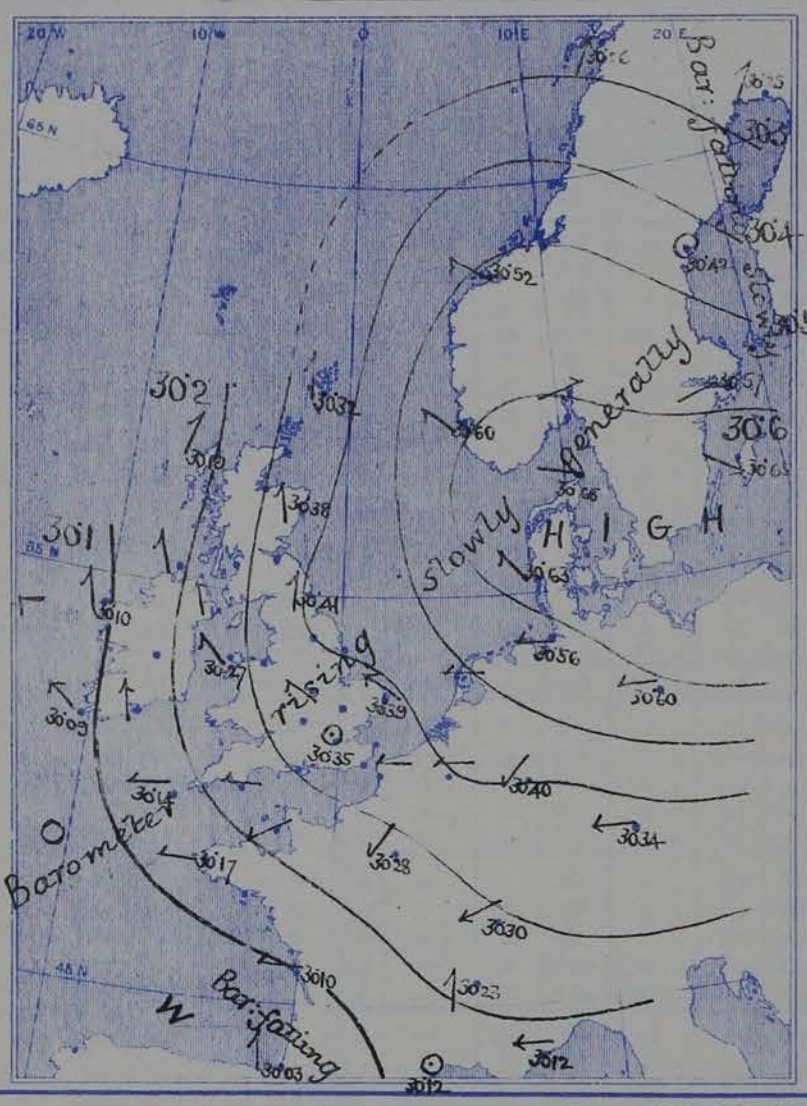
Bright Sunshine yesterday Southport 4·4 hrs;

WEATHER CHARTS

FOR Saturday, 25th February, 1899.

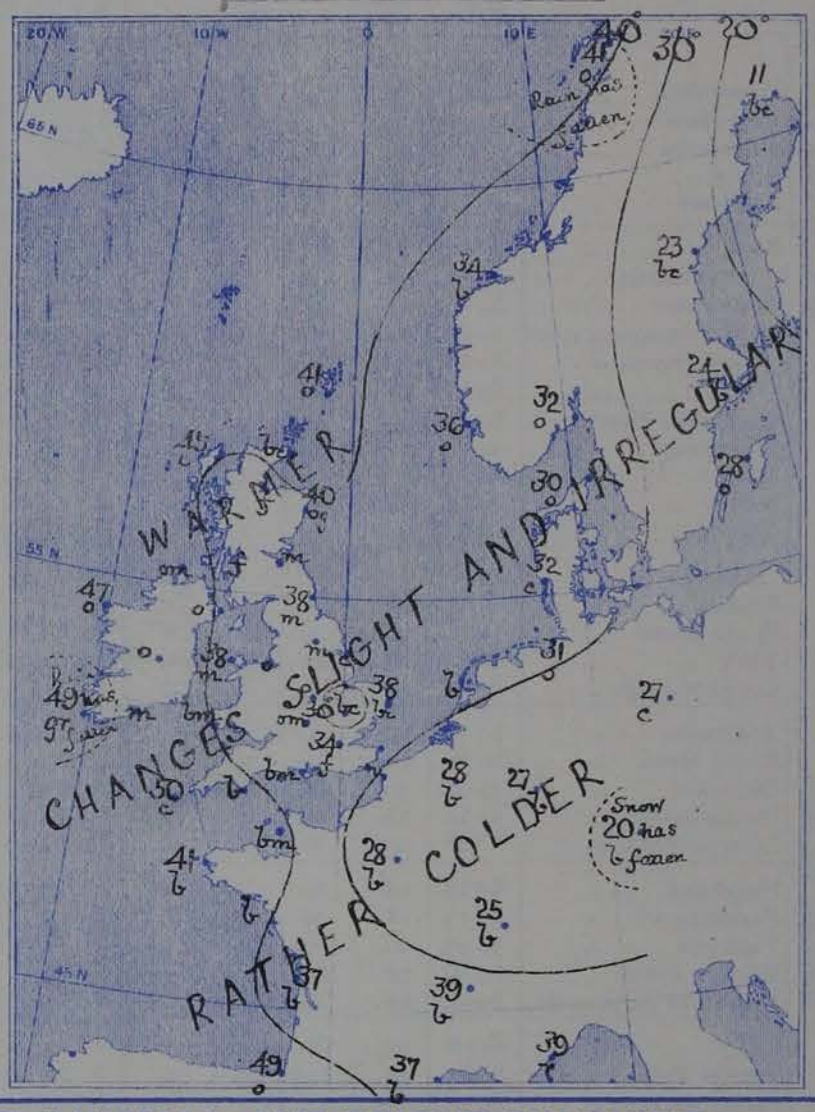
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.6 ins. and upwards in Denmark and the S. of Scandinavia; 30.2 ins. and upwards in an anticyclone covering the greater part of N.W.rn Europe.
Lowest 30.1 ins. and upwards over the extreme S.W. of Ireland, the Bay of Biscay & the S.W. of France.
Gradients slight. Barometer rising generally, but falling a little in the S.W. of France and also in Sweden.

TEMPERATURE

Highest (1) 50° at Scilly, 49° at Valencia (Ireland), and 48° at Roches Pt.; (2) 49° at Biarritz.
Lowest (1) 11° at Haparanda, and 23° at Hernösand; (2) 20° at Munich and 25° at Belfort; lowest in our Islands, 26° at Cambridge, and 32° at Nairn, Leith and Ardrossan.
Frost occurred last night in many parts of Gt. Britain, the lowest temperatures reported being:—(1) In the screen 24° at Cambridge, 25° at Nairn, and 27° at Oxford; (2) on the grass 19° at Oxford, and 22° in London.

WIND

Light to fresh from the E.ly over England, France, Germany and the Netherlands; fresh from the SE.ly in Ireland; light from the S.ly in Scotland.
SE.ly in the west of Norway; SW.ly or W.ly in Sweden.

WEATHER

Fair or fine over W.rn Europe generally, but foggy or misty in many parts of Gt. Britain.
Dull in Ireland, with rain at Valencia; dull also in the S. of Scandinavia and in the extreme S. of France, with rain at Nice.
A little rain fell yesterday at Valencia (Ireland), and also at Bodö and Munich. A lunar halo was seen at Stornoway.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT.

There are at present no signs of any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 26TH FEB. 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S.ly winds, light or moderate; fair generally.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No. 2.
2 ENGLAND N.E.	SE.ly winds, light; fair generally, but some mist or fog.	8 ENGLAND S.W.	E.ly and SE.ly winds, moderate; fair generally.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	E.ly winds, light or moderate; fine generally, but some mist or fog.	9 IRELAND NORTH 10 IRELAND SOUTH	SE.ly and S.ly winds, fresh; dull, some rain.
		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·57	37	34	SSE	6	o	4
Sumburgh Head	30·27	45	44	S	2	c	3
Stornoway	30·18	51	49	S	3	bc	3
Aberdeen	30·28	45	41	S	2	bm	1
Shields	30·31	42	40	SE	1	m	2
Ardrossan	30·26	45	44	SSE	2	cf	1
Malin Head ...	30·18	49	47	SSE	3	o	2
Belmullet	30·11	51	48	S	3	c	*
Holyhead	30·27	47	45	SE	1	om	0

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·04	52	47	SSE	5	ou	5
Scilly	30·20	51	48	SSE	3	c	1
Jersey	30·26	50	49	ESE	2	bm	2
Hurst Castle ...	30·27	52	47	E	1	bm	1
Dungeness ...	30·30	48	45	SSE	2	b	1
North Foreland							
London (Westminster)	30·30	52	43	SSE	3	bem	*
Yarmouth ...	30·31	44	42	ESE	2	b	3
Rochefort ...	30·23	59	55	NE	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over W^rn. Europe generally, but with fog or mist in many parts of Gt. Britain; dull over Wales and the S. of Ireland, with slight rain at Valencia. Dull over Sweden, Russia, Germany, Austria and S^rn. Italy, with snow at Kuopio, Helsingfors, Moscow, Kharkov and Vienna; fine over N^rn. Italy. No important change occurring over W^rn. Europe during day.

Temperature fallen over Europe as a whole, but risen a little in the W. of our Islands. Morning readings highest 58° at Barcelona and La Calle, 56° at Algiers, and 55° at Malta; touching 50° at Valencia (Ireland) and Scilly. Lowest −1° F. at St. Petersburg, +1° at Moscow, and 8° at Kuopio; below the freezing point over N^rn., E^rn. and central Europe generally, and also in many parts of Gt. Britain. Rising during day to 50° and upwards at many of the English and French stations, and to 56° at Cambridge, exceeding 55° also in the S. of France, and reaching 64° at Perpignan.

Wind light to moderate from the E^rly. or NE^rly. over the Baltic, Germany, the Netherlands, the S. of England and the greater part of France; light from the S^rly. in Ireland and Scotland and also in Sweden and the south of Norway; E^rly. in the west of Norway. W^rly. over northern Russia, but NE^rly. over the central and southern parts of that country; N^rly. or NW^rly. in Austria, and also over the Spanish peninsula. No important change occurring later.

Barometer highest 30.6 ins. and upwards over Finland and the S. of Sweden; 30.2 ins. and upwards in an anticyclone covering all but the S^rn. and extreme W^rn. parts of Europe. Lowest 29.9 ins. and less in a depression over the Black Sea; 30.1 ins. and less in a shallow system over the Gulf of Genoa. No material change occurring over W^rn. Europe during day.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday, 26th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.04	32	W	4	b	29.89	-.36	33	32	+.22	W	2	0	*	b	*	?	5	-
	Hernösand ...	30.37	33	W	0	b	30.24	-.18	34	33	+.11	W	2	bc	*	b	*	41	14	-
	Stockholm ...	30.42	32	W	2	0	30.37	-.20	27	26	+.3	W	2	bc	*	0	*	36	21	-
	Wisby	30.51	32	NW	6	c	30.39	-.16	31	30	+.3	NNW	4	0	*	c	*	32	19	-
	Karlstad ...	30.52	28	SW	2	0	30.46	-.14	18	18	-.10	NW	2	0	*	0	*	*	*	-
	Bodö	30.17	41	SW	7	r	29.91	-.35	41	40	0	SW	8	r	6	r	*	41	39	0.43
	Christiansund ...	30.49	35	ESE	2	b	30.36	-.16	39	36	+.5	NSW	4	0	4	b	*	39	34	-
	Skudesnaes ...	30.55	37	ESE	4	b	30.48	-.12	36	33	0	E	2	0	2	0b	*	37	34	*
	Færder (Christiania Fjord)	30.53	31	NNE	1	b	30.46	-.14	25	25	-.7	NE	1	f	1	b	*	34	25	-
	Skagen (The Scaw)	30.56	32	NSW	3	0	30.48	-.17	32	31	+.2	NSW	2	0	0	0	*	34	28	-
	Fanö	30.59	31	SE	1	0	30.49	-.14	31	30	-.1	S	1	bc	*	0	*	34	30	-
BRITISH ISLANDS	Sumburgh Head	30.32	41	S	3	0	30.31	-.01	39	38	-.2	S	1	0	4	0	*	42	38	-
	Stornoway ...	30.21	47	SW	3	c	30.23	+.04	40	39	-.5	SW	3	bc	3	0,c	1.5	48	38	-
	Wick	30.29	44	S	4	m	30.27	-.02	38	37	-.3	S	1	b	2	m	*	48	33	-
	Nairn	30.29	38	W	0	f	30.31	+.02	29	27	-.3	W	0	b	1	f	*	46	23	-
	Aberdeen ...	30.39	39	S	3	og	30.35	-.03	36	34	-.4	S	2	c	3	og	0.0	41	34	-
	Leith	30.34	38	W	0	b	30.36	+.01	31	31	-.1	W	0	m	*	b	*	45	29	-
	Shields	30.41	38	SSE	3	om	30.41	.00	33	32	-.5	SSW	2	bm	2	om	*	40	30	-
	Spurn Head ...	30.41	38	SE	4	bc	30.41	+.01	37	35	-.1	SE	3	c	3	bc	*	40	36	-
	York	30.42	37	E	2	0	30.42	+.01	34	32	-.2	SSE	1	c	*	0	0.1	41	29	-
	Loughborough ...	30.39	38	E	1	b	30.42	+.03	22	22	-.3	SSE	1	bcm	*	cm.bc.b	*	43	20	-
	Ardrossan ...	30.31	43	E	1	bf	30.36	+.07	29	29	-.9	NNE	2	bf	1	bf	*	47	27	-
	Malin Head ...	30.20	45	SE	3	cm	30.25	+.08	39	38	-.5	SSE	4	bcm	2	bcm	*	51	38	-
	Belmullet ...	30.15	50	SSE	3	0	30.22	+.12	43	42	-.4	SSE	4	bo	*	0	*	50	40	-
	Donaghadee ...	30.29	44	SE	5	bc	30.34	+.07	42	40	-.2	SE	4	c	2	bc	*	46	40	-
	Liverpool (Bidston)	30.37	36	ESE	4	b	30.38	+.04	30	29	-.2	ESE	3	b	?	b	*	42	27	-
	Holyhead ...	30.28	45	W	0	m	30.32	+.05	38	37	0	NSW	1	bc	1	bc	*	53	35	-
	Parsonstown ...	30.21	47	SE	1	0	30.27	+.09	39	37	-.5	SE	1	bc	*	0	0.0	50	38	-
	Valencia ...	30.15	50	SE	3	og	30.18	+.09	48	45	-.1	SE	3	om	3	ogm,oy	0.0	52	47	0.11
	Roche's Point ..	30.19	48	SSE	5	o	30.25	+.09	47	44	-.1	SSE	5	c	4	o	*	50	45	-
	Pembroke (St. Ann's Hd.)	30.26	44	ESE	4	b	30.30	+.07	39	38	-.2	ESE	4	ogm	3	b	7.4	46	35	-
	Scilly	30.18	49	E	5	c	30.20	+.06	46	43	-.4	E	5	c	3	c	6.3	53	43	-
	Prawle Point ...	30.26	44	ENE	4	b	30.29	+.06	41	38	-.6	ENE	4	b	3	b	*	50	38	-
	Jersey (St. Aubin's)	30.23	47	ENE	4	bm	30.30	+.05	37	35	-.6	ENE	4	bm	1	b	*	53	34	-
	Hurst Castle ...	30.30	41	E	3	bm	30.34	+.05	32	32	-.6	NE	1	bm	1	b	*	47	30	-
	Dungeness ...	30.34	39	E	4	b	30.36	+.05	39	37	+.2	E	3	b	2	b	*	44	35	-
	North Foreland																*			
	London (Brixton) ...	30.36	37	E	4	b	30.38	+.03	33	31	-.1	E	2	bf	*	b.bm	3.3	46	28	-
	Oxford	30.39	34	E	2	b	30.41	+.05	25	25	-.10	NNE	2	b	*	b	*	46	24	-
	Cambridge ...	30.41	35	ESE	2	b	30.42	+.33	24	24	-.2	W	0	b	*	b	7.2	49	22	-
	Yarmouth ...	30.40	37	E	5	bc	30.41	+.02	37	35	-.1	ENE	3	bc	3	bc	*	40	35	-
GERMANY & HOLLAND.	Cuxhaven ...	30.56	30	SE	2	0	30.52	-.04	29	27	-.2	SSE	1	0	*	0	*	32	27	-
	Berlin	30.57	26	E	3	0	30.50	-.10	27	25	0	SE	2	0	*	0	*	30	25	-
	Wiesbaden ..	*	*	*	*	*									*	*	*			
	Munich... ..	30.38	22	E	5	b	30.36	+.02	15	14	-.5	SE	3	b	*	b	*	30	12	-
	The Helder ...	30.48	33	E	1	b	30.45	-.03	28	27	-.2	E	1	b	1	b	*	34	28	-
BELGIUM.	Brussels ...	*	*	*	*	*	30.42	+.01	26	25	-.2	E	1	b	*	b	*	39	20	-
	Cape Gris Nez ..	?	36	ESE	2	m	?	?	28	28	0	SE	1	m	1	m	*	45	27	-
	Paris	30.29	36	NE	2	b	30.33	+.05	24	23	-.4	NE	2	m	*	b	*	44	23	-
	Brest	30.16	51	E	3	b	30.21	+.04	36	35	-.5	E	1	b	2	b	*	57	32	-
	Lorient... ...	30.16	48	E	2	b	30.21	+.04	32	32	-.7	E	4	b	4	b	*	57	32	-
FRANCE &	Rochefort ...	30.10	49	E	3	b	30.16	+.06	32	30	-.5	NE	4	b	*	b	*	61	30	-
	Belfort	30.22	35	ENE	1	b	30.35	+.05	22	20	-.3	ENE	5	b	*	b	*	40	21	-
	Lyons	30.17	38	N	1	b	30.31	+.08	26	25	-.4	NNW	1	b	*	b	*	45	25	-
	Nice	30.16	40	E	6	0	30.21	+.09	33	28	-.6	E	2	b	3	0	*	48	32	0.08
	Perpignan ...	30.08	47	NE	2	c	30.15	+.03	46	44	+.9	SE	2	0	*	c	*	55	45	-
	Biarritz ...	30.02	55	NE	4	b	30.03	.00	40	38	-.9	SE	2	b	2	b	*	61	39	-
PENIN-SULA.	Corunna ...	29.98	61	E	2	0	30.04		46	45		E	1	f	2	0	*	64	41	-
	Lisbon	29.88	53	NE	4	0	29.92	-.10	52	50	+.2	NE	4	c	*	0	*	57	50	—
	Azores (P. Delgada)	30.15	58	NSW	3	0	30.11		58	56		NSW	3	c	3	0	*	63	57	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

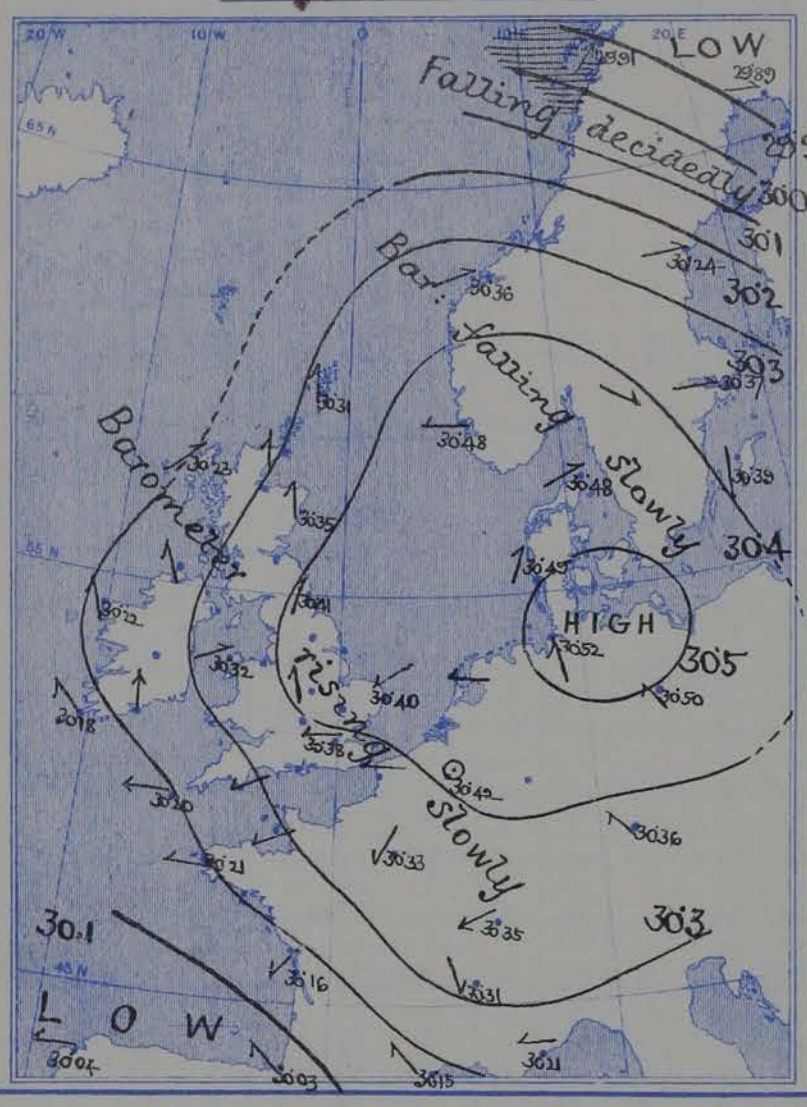
Bright Sunshine yesterday Southport...6·8...hrs;

WEATHER CHARTS

FOR Sunday 26th February, 1899.

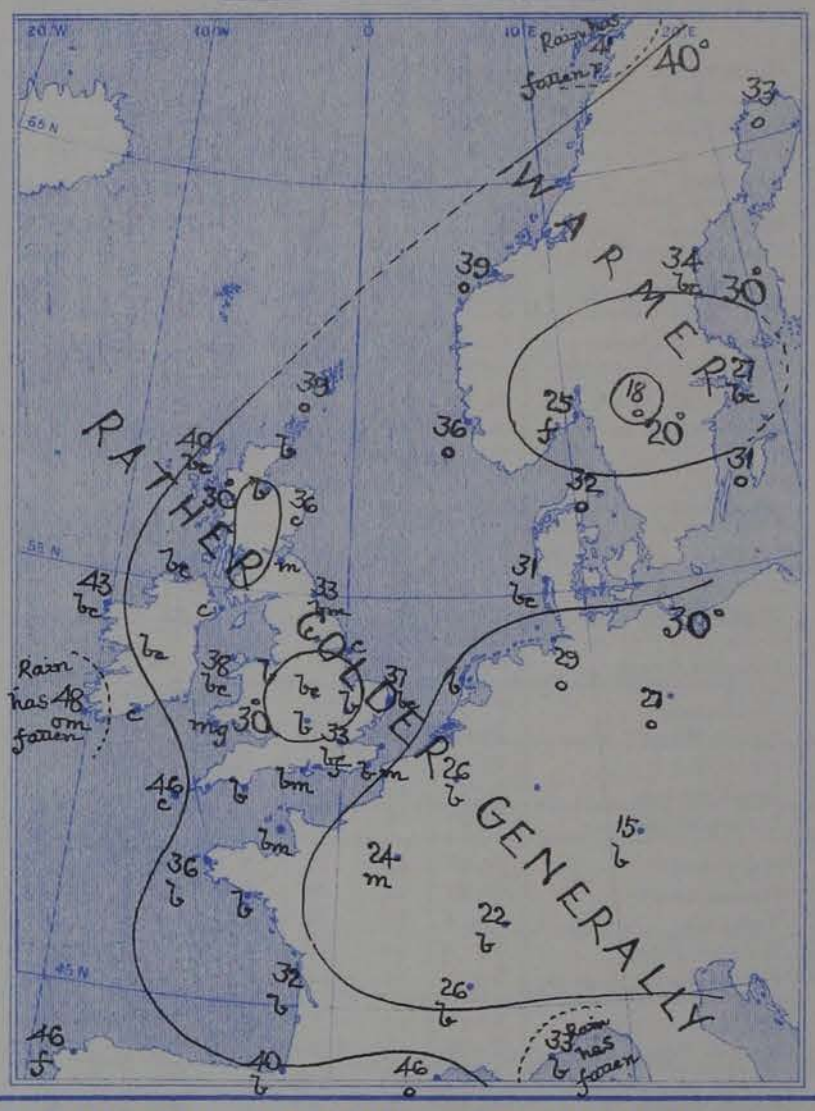
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 772	38 · 6	37 · 2	42 · 2	34 · 4	51	1887, 91	17	1895	3 · 11	—	—
Stornoway	29 · 775	38 · 9	38 · 0	43 · 6	34 · 2	55	1891	12	1892	3 · 80	63 · 6	25
Wick	29 · 800	37 · 7	36 · 4	42 · 9	32 · 9	59	1878	2	1895	2 · 16	—	—
Nairn	29 · 815	36 · 7	35 · 1	43 4	32 · 5	64	1891	0	1895	1 . 65	—	—
Aberdeen	29 · 853	36 · 9	35 · 2	43 · 1	33 · 3	59	1878, 83	6	1895	2 · 26	73 · 4	28
Leith	29 · 873	38 · 1	36 · 7	45 · 5	33 · 9	59	1882	12	1895	1 · 51	—	—
Shields	29 · 908	38 · 3	36 · 9	43 · 9	34 · 4	59	1887	7	1895	1 · 50	—	—
Spurn Head	29 · 938	38 · 1	37 · 2	42 · 2	35 · 4	57*	1891	20*	1895	1 · 32	—	—
York	29 · 945	37 · 0	36 · 0	44 · 4	33 · 2	59	1872, 78	3	1895	1 · 68	60 · 0	22
Loughborough	29 · 972	36 · 7	35 · 5	45 · 2	33 · 0	64*	1891	—5*	1895	1 · 71	—	—
Ardrossan	29 · 880	39 · 2	38 · 0	44 · 4	35 · 9	56	1891	13	1895	2 · 93	—	—
Malin Head	29 · 844	41 · 0	39 · 5	45 · 5	38 · 3	—	—	—	—	—	—	—
Belmullet	29 · 870	42 · 3	40 · 7	47 · 2	38 · 8	—	—	—	—	4 · 20	—	—
Donaghadee	29 · 894	40 · 0	39 · 1	45 · 5	36 · 6	56	1894	16	1895	2 · 34	—	—
Holyhead	29 · 923	41 · 1	39 · 8	45 · 4	38 · 3	59	1891	17	1895	2 · 42	—	—
Liverpool	29 · 943	38 · 5	37 · 0	44 · 3	35 · 7	62	1878	12	1895	1 · 68	—	—
Parsonstown	29 · 915	39 · 1	37 · 8	46 · 8	35 · 1	59	1891	6	1895	2 · 16	68 · 0	25
Valencia	29 · 917	44 · 3	42 · 6	49 · 5	40 · 3	58	1891	22	1895	4 · 89	72 · 9	27
Roche's Point	29 · 927	43 · 0	41 · 4	48 · 2	39 · 4	56	1877, 89	25	1895	4 · 19	—	—
Pembroke	29 · 948	41 · 8	40 · 5	45 · 3	39 · 0	52	1877, 91	23	1895	2 · 62	79 · 9	29
Scilly	29 · 964	45 · 7	44 · 1	48 · 6	42 · 4	56	1877	27	1895	2 · 62	—	—
Prawle Point	29 · 996	41 · 2	40 · 2	46 · 6	37 · 8	57*	1891	21*	1888, 92, 95	1 · 94	—	—
Jersey	30 · 016	42 · 0	40 · 6	46 · 8	38 · 8	62	1891	18	1895	2 · 41	95 · 0	34
Hurst Castle	29 · 996	39 · 8	38 · 8	45 · 4	36 · 3	60	1877	17	1895	2 · 10	—	—
Dover	29 · 990	38 · 8	37 · 7	44 · 2	35 · 5	56	1882	11	1889	1 · 81	—	—
LONDON	29 · 996	38 · 1	36 · 8	45 · 5	34 · 5	62	1876, 91	10	1895	1 · 64	33 · 0†	12†
Oxford	29 · 994	37 · 3	36 · 1	44 · 9	34 · 2	64	1891	7	1895	1 · 76	66 · 3	24
Cambridge	29 · 987	36 · 7	35 · 7	45 · 5	32 · 1	67	1891	6	1895	1 · 42	70 · 5	26
Yarmouth	29 · 967	37 · 8	36 · 9	42 · 3	34 · 0	58	1872	15	1895	1 · 73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.5 ins. and upwards over N. Germany and the S^rn. parts of Denmark, 30.2 ins. and upwards in an anticyclone covering the greater part of W^rn. Europe.
Lowest 29.9 ins. and less in a depression over the N. of Scandinavia, 30.0 ins. and less in a shallow area over the Spanish peninsula.
Gradients slight generally, but moderate over the N^rn. parts of Scandinavia.
Barometer being a little in most parts of our Islands and France, falling elsewhere.

TEMPERATURE

Highest (1) 52° at Lisbon and 46° at Perpignan and Corunna; (2) 48° at Valencia (Ireland), 47½° at Roches Pt., 46° at Scilly.
Lowest (1) 15° at Munich, 22° at Belfort, and 24° at Paris; (2) 18° at Karlstad; (3) 22° at Loughborough, 24° at Cambridge and 25° at Oxford.
Sharp frost occurred last night over Gt. Britain, the lowest temperature reported being (1) in the screen 20° at Loughborough, 22° at Cambridge, and 23° at Nairn; (2) on the grass 15° at Loughborough, 18° in London, and 19° at Oxford.

WIND

Light from the E^rly. or NE^rly. over the south and east of England, the Netherlands and the greater part of France and Spain.
Moderate to fresh from the SE^rly. on our west coasts, light from the S^rly. or SW^rly. in the north of Scotland, W^rly. or SW^rly. over the northern parts of Scandinavia; NW^rly. in the south of Sweden; SE^rly. in Germany.

WEATHER

Fair or fine over W^rn. Europe generally, but with fog or mist in many parts of Gt. Britain.
Dull at several of the Scandinavian stations and also in N. Germany, with rain at Bodö.
A little rain fell yesterday at Valencia (Ireland) and Nice, and a somewhat larger quantity at Bodö, but in other parts of our Islands the weather remained very dry.

SEA

Slight or smooth generally, but rough at Bodö.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 27th. FEB. 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·61	37	34	SSE	4	0	2
Sumburgh Head	30·32	42	39	S	3	0	4
Stornoway	30·20	48	45	SSW	4	0	4
Aberdeen	30·38	41	37	SSE	3	0	4
Shields	30·42	40	37	S	2	0m	2
Ardrossan	30·30	47	45	SE	2	bf	1
Malin Head ...	30·18	51	48	S	3	bm	2
Belmullet	30·14	50	48	SSE	4	0	*
Holyhead	30·28	52	45	SE	1	bc	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·12	51	49	SE	4	0dm	4
Scilly	30·16	51	48	E	4	c	3
Jersey	30·24	51	45	E	4	bm	3
Hurst Castle ...	30·30	46	44	E	4	bm	2
Dungeness ...	30·34	42	40	ENE	4	b	3
North Foreland							
London (Westminster)	30·36	44	39	E	3	b	*
Yarmouth ...	30·40	39	36	ESE	4	bc	4
Rochefort ...	30·10	59	52	ESE	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair or fine over W^rn. and S^rn. Europe generally, but foggy or misty in many parts of Gt. Britain; dull in Ireland, with rain at Valencia (Ireland). Dull also over Russia and central Europe, with snow in several places; rain falling at Nice. No important change occurring later, but rain setting in at Bodö in evening.

Temperature risen over the N^rn. and central parts of our Islands, and also in Scandinavia, but fallen elsewhere. Morning readings highest 56° at Algiers, 54° at Barcelona, and 53° at Malta; above 50° at most of the Mediterranean and Spanish coast stations, and just touching 50° at Scilly. Lowest 1° at Moscow, 9° at Kiev and Kharkov, and 10° at Buda Pesth; below the freezing point in most parts of N^rn. and central Europe, and also in the E. of England. Not exceeding 40° all day on the E. coasts of England, but rising above 50° on many parts of our W^rn. coasts; exceeding 55° in the W. and S. of France, and reaching 63° at Lyons. Sharp frost occurring over Gt. Britain at night.

Wind light to fresh from the E^rly. or NE^rly. over England, France, N^rn. Italy, Germany and the Netherlands; fresh from the SE^rly. in Ireland; light from the S^rly. in Scotland. SW^rly. or W^rly. over Scandinavia and northern Russia, but NE^rly. in the south of Russia, and N^rly. in Austria, variable over Southern Italy. No important change occurring over western Europe during day.

Barometer highest 30.6 ins. and upwards over Denmark, N. Germany, the S. of Scandinavia and the W^rn. and central parts of Russia; 30.1 ins. and upwards in an anticyclone covering nearly the whole of Europe. Lowest 30.0 ins. and less in a depression lying off the Portuguese coasts. No important change occurring later, but depression spreading slowly NE^rwds. over the Spanish Peninsula.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Monday, 27th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.64	38	SW	4	bc	29.99	+ .10	11	10	− 22	N	2	b	*	bc	*	39	?	–
	Hernösand ...	30.08	41	W	2	0	30.03	− .21	39	36	+ 5	W	4	r	*	0	*	45	28	–
	Stockholm ...	30.25	31	W	4	b	30.18	− .19	28	26	+ 1	WNW	4	o	*	b	*	39	25	–
	Wisby	30.33	25	NW	4	b	30.24	− .15	32	32	+ 1	NNW	6	b	*	b	*	34	23	–
	Karlstad ...	30.35	25	SW	1	b	30.27	− .19	23	23	+ 5	W	2	0	*	b	*	*	*	–
	Bodö	29.89	39	NW	2	0	29.92	+ .01	34	33	− 7	ESE	1	0	1	0	*	40	32	–
	Christiansund ...	30.34	40	NNW	5	c	30.23	− .13	41	38	+ 2	NNW	6	r	5	c	*	43	39	–
	Skudesnaes ...	30.47	38	W	0	0	30.46	− .02	36	35	0	ENE	2	0	1	0	*	38	34	*
	Færder (Christiania Fjord)	30.36	32	SW	2	b	30.31	− .15	27	26	+ 2	NNW	4	f	2	b	*	32	23	–
	Skagen (The Scaw)	30.41	37	WNW	4	0	30.32	− .16	37	35	+ 5	WNW	7	bc	2	c	*	37	30	–
	Fanö	30.54	32	S	1	c	30.53	+ .04	33	30	+ 2	WSW	1	0	*	c	*	34	30	–
BRITISH ISLANDS.	Sumburgh Head	30.29	41	S	1	c	30.33	+ .02	38	37	− 1	W	1	0	3	c	*	43	36	–
	Stornoway ...	30.25	45	SSW	3	bc	30.32	+ .04	41	40	+ 1	SW	3	0	3	cm.bc	3.5	46	38	–
	Wick ...	30.28	40	S	2	b	30.34	+ .07	33	32	− 5	SW	1	b	1	b	*	44	25	–
	Nairn	30.26	37	WSW	1	b	30.39	+ .08	25	23	− 4	W	0	b	0	b	*	51	21	–
	Aberdeen ...	30.36	33	SW	2	bm	30.43	+ .08	25	24	− 11	W	1	bm	1	bm	3.0	38	23	–
	Leith	30.36	33	W	0	f	30.44	+ .08	25	25	− 6	W	0	f	*	f	*	34	24	–
	Shields	30.37	39	S	1	m	30.47	+ .06	28	27	− 5	SW	3	m	2	m	*	42	27	–
	Spurn Head ...	30.42	38	ESE	3	b	30.51	+ .10	36	34	− 1	WSW	2	c	2	b	*	43	35	–
	York	30.40	39	ESE	1	b	30.51	+ .09	24	24	− 10	SSE	1	f	*	b,m	6.5	44	22	–
	Loughborough ...	30.40	38	E	1	b	30.52	+ .10	21	21	− 1	W	0	bf	*	bm.bf	*	46	20	–
	Ardrossan ...	30.35	40	W	0	bf	30.45	+ .04	32	31	+ 3	NNE	2	bcf	1	bf	*	44	28	–
	Malin Head ...	30.27	43	S	1	bm	30.35	+ .10	37	36	− 2	S	4	bm	2	b.bm	*	49	35	–
	Belmullet ...	30.25	47	S	2	0	30.35	+ .13	40	38	− 3	SSE	2	b	*	0	*	?48	35	–
	Donaghadee ...	30.35	40	SW	3	c	30.44	+ .10	28	28	− 14	WSW	3	b	1	c	*	45	26	–
	Liverpool (Bidston)	30.37	38	SE	2	b	30.48	+ .10	30	29	0	SE	2	b	?	bm	*	42	29	–
	Holyhead ...	30.35	42	S	1	b	30.45	+ .13	34	32	− 4	SE	1	m	0	b	*	46	32	–
	Parsonstown ...	30.30	43	SE	1	0	30.41	+ .14	31	31	− 8	SE	1	b	*	b,0	8.5	50	31	–
	Valencia ...	30.23	48	SE	3	cm	30.37	+ .19	45	41	− 3	E	1	bc	3	cm	4.8	53	43	–
	Roche's Point ..	30.30	46	SE	5	bc	30.38	+ .13	46	43	− 1	SSE	4	c	4	bc	*	50	45	–
	Pembroke (St. Ann's Hd.)	30.32	42	SW	3	b	30.45	+ .15	37	36	− 2	ESE	3	ogm	3	b	6.6	44	35	–
	Scilly	30.27	45	E	4	c	30.35	+ .15	45	42	− 1	E	3	bc	2	c	5.3	48	41	–
	Prawle Point ...	30.33	41	ENE	3	b	30.43	+ .14	43	39	+ 2	ENE	3	b	2	b	*	45	39	–
	Jersey (St. Aubin's)	30.27	45	ENE	3	bm	30.43	+ .13	40	36	+ 3	ESE	2	bm	2	bm	*	46	35	–
	Hurst Castle ...	30.34	41	NE	1	bm	30.46	+ .12	33	32	+ 1	NE	3	bm	1	bm	*	47	31	–
	Dungeness ...	30.34	41	ENE	4	b	30.47	+ .11	39	38	0	ENE	3	bc	2	b	*	44	36	–
	North Foreland																*			
	London (Brixton) ...	30.39	38	E	1	b	30.50	+ .12	25	24	− 8	SE	1	f	*	b.bm	4.5	46	25	–
	Oxford	30.41	34	ESE	2	b	30.54	+ .13	25	25	0	N	1	bf	*	b	*	46	24	–
	Cambridge ...	30.40	38	E	1	b	30.54	+ .12	26	26	+ 2	W	0	b	*	bm	7.7	48	23	–
	Yarmouth ...	30.42	37	ENE	3	c	30.51	+ .10	36	34	− 1	E	2	bcv	3	c	*	40	33	–
GERMANY & HOLLAND.	Cuxhaven ...	30.49	32	SE	1	0	30.55	+ .03	27	26	− 2	W	0	b	*	0	*	32	27	–
	Berlin	30.49	32	SE	2	0	30.51	+ .01	31	28	+ 4	NW	2	o	*	0	*	32	27	–
	Wiesbaden ...	*	*	*	*	*	30.49		22	22		NE	2	b	*	*	*	36	21	–
	Munich	30.35	25	E	4	b	30.43	+ .07	17	16	+ 2	E	3	b	*	b	*	30	14	–
	The Helder ...	30.45	31	ENE	1	b	30.53	+ .08	27	26	− 1	E	1	b	1	b	*	32	27	–
BELGIUM.	Brussels ...	*	*	*	*	*									*		*			
	Cape Gris Nez ...	?	36	E	1	m	?	?	30	27	+ 2	SE	2	m	1	m	*	45	27	–
	Paris	30.32	39	ENE	2	b	30.42	+ .09	24	24	0	NNE	2	b	*	b	*	49	22	–
	Brest	30.27	44	NE	1	b	30.35	+ .14	36	34	0	E	2	b	1	b	*	52	32	–
	Lorient	30.21	46	ENE	4	bc	30.32	+ .11	36	33	+ 4	ENE	4	b	3	bc	*	57	32	–
FRANCE &	Rochefort ...	30.16	37	ENE	4	c	30.31	+ .15	37	35	+ 5	E	3	c	*	c	*	57	32	–
	Belfort	30.30	32	ENE	4	b	30.43	+ .08	?23	19	+ 1	ENE	3	m	*	b	*	39	19	–
	Lyons	30.27	39	N	1	b	30.38	+ .01	25	23	− 1	N	1	m	*	b	*	45	24	–
	Nice	30.23	39	E	2	b	30.35	+ .14	33	31	0	E	2	b	2	b	*	43	32	–
	Perpignan ...	30.21	44	SE	2	b	30.29	+ .14	33	33	− 13	SW	2	b	*	b	*	57	31	–
	Biarritz ...	30.04	53	NNE	3	c	30.13	+ .10	43	41	+ 3	S	2	o	0	c	*	61	40	–
PENINSULA.	Corunna ...																*			
	Lisbon	30.05	56	NNW	3	b	30.13	+ .21	52	50	0	N	3	b	*	b	*	61	50	–
	Azores (P. Delgada)	30.10	59	S	4	c	30.06	− .05	59	55	+ 1	S	4	o	4	c	*	64	57	–

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

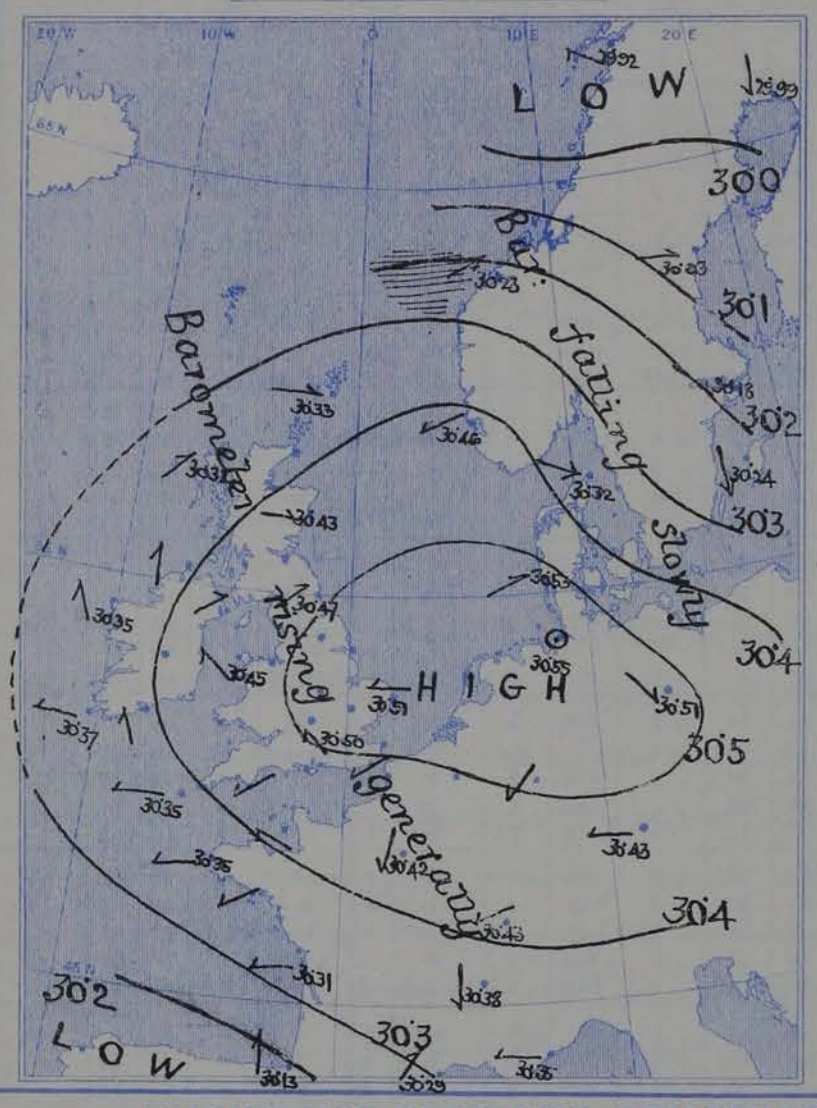
Bright Sunshine yesterday Southport 8.2 hrs;

WEATHER CHARTS

FOR Monday, 27th February, 1899.

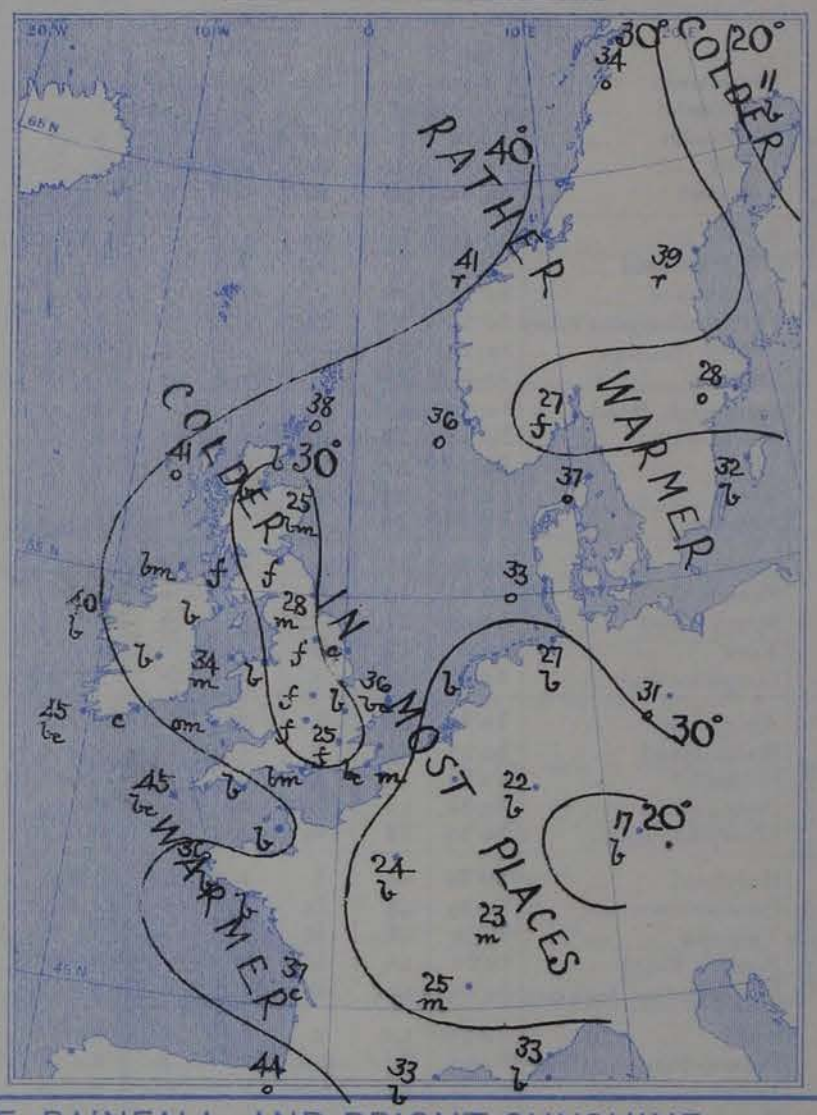
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43·4	32·5	64	1891	0	1895	1·65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·9	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.5 ins. and upwards over Denmark, the Netherlands, N. Germany, the S.rn parts of the North Sea, and the E.rn and central parts of England; 30.2 ins. and upwards in an anticyclone covering the whole of W.rn Europe.
Lowest 30.0 ins. and less over the N.rn parts of Scandinavia.
Gradients slight generally. Barometer rising in our Islands, France & Germany, falling in Scandinavia & Denmark.

TEMPERATURE

Highest (1) 52° at Lisbon, and 44° at Biarritz; (2) 46° at Roches Pt., and 45° at Valencia (Ireland) and Scilly; (3) 41° at Christiansund and Stornoway.
Lowest (1) 11° at Haparanda; (2) 17° at Munich and 22° at Wiesbaden; (3) 21° at Loughborough, 24° at York, and 25° at Nairn, Aberdeen, Leith, Oxford and London.
Sharp frost occurred last night over Gt. Britain, the lowest temperatures reported being:- (1) In the screen 20° at Loughborough, 21° at Nairn, and 23° at Aberdeen and Cambridge; (2) on the grass 16° at Loughborough, 18° in London, and 19° at Oxford.

WIND

Light from the E.rly or NE.rly over the south of England, the Netherlands and the greater part of France and Germany, but S.ly in the south of France.
Light from the SE.rly in Ireland and Wales, and from the SW.rly in Scotland & the N. of England.
W.ly (SW.ly to NW.ly) over Scandinavia and Denmark, and strong in force in places.

WEATHER

Fair or fine over W.rn Europe generally, but with fog or mist in many parts of Gt. Britain & France.
Dull at most of the Scandinavian stations, with rain at Hernösand and Christiansund.
Since yesterday morning there appears to have been an entire absence of rain over the whole of our area.

SEA

Slight or smooth generally, but rather rough at Christiansund.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be moving very slowly S.wds, and depressions are beginning to advance over Scandinavia from the W.rd. In our Islands no decided change in the weather is likely to occur at present.

FORECASTS

For the 24 hours ending at NOON on 28TH FEBRUARY 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW.ly and W.ly winds moderate, cloudy, rain locally.	6 SCOTLAND WEST	E.ly winds, light; fair generally, but mist or fog locally.
1 SCOTLAND EAST	Light breezes chiefly SW.ly; fair generally, but mist or fog locally.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	Variable or E.ly airs; fair, cold, fog or mist in many places.	9 IRELAND NORTH	Varying S.ly winds, light; fair generally, colder.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·48	38	35	E	0	0	2
Sumburgh Head							
Stornoway ...	30·25	46	44	SW	4	cm	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·25	49	45	S	3	b	1
Belmullet	30·24	?48	?45	SSW	2	0	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30·28	44	39	E	4	bm	3
Hurst Castle ...							
Dungeness ...	30·35	40	39	ENE	4	b	3
North Foreland							
London (Westminster)							#
Yarmouth ...							
Rochefort ...	30·15	52	46	E	4	c	#

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

CONTINENTAL INFORMATION NOT RECEIVED.

SUMMARY OF CHANGES IN THE WEATHER OVER EUROPE FROM THE 19TH TO 25TH FEB. 1899.

At the commencement of the week barometric pressure was highest over central Russia, a new anticyclone being, however, shortly developed over our Islands. Between these two areas a well marked depression was formed over the Baltic and S. of Sweden, the disturbance ultimately moving SE.wd and S.wd across Russia, and occasioning snow in many parts of that country.

The anticyclone over our Islands in the meantime increased both in size and height, and ultimately embraced the greater part of Europe, its central area being found at first over the North Sea and the neighbouring countries, and afterwards over Scandinavia and N.rn Russia. On the 21st the weather over the W.rn parts of the United Kingdom was temporarily affected by a large shallow depression which spread NE.wd over the Bay of Biscay and our SW. coasts, and occasioned heavy rain over the St. George's Channel and Irish Sea. Later on, however, fair dry weather set in over the whole of W.rn Europe, the prevailing winds being mostly E.rly over England, France and neighbouring parts of the Continent, but SE.rly or S.rly in Ireland and Scotland. Sharp night frosts were experienced over nearly the whole of NW.rn, N.rn and central Europe, but in our Islands the day temperatures were rather high, the thermometer over England frequently rising above 50°, and in some instances even a little above 55°. At the close of the week, however, the E.rly winds over England became rather more decided, and colder weather spread over from the Continent.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Tuesday, 28th February, 1899.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.99	?	NE	0	0	29.68	-.31	19	19	+8	SSW	2	0	#	0	#	34	10	—
	Hernösand ...	30.01	42	W	2	c	29.84	-.16	40	34	+1	W	2	0	#	c	#	45	32	—
	Stockholm ...	30.12	34	NE	0	b	30.09	-.09	32	32	+4	W	2	0	#	b	#	36	25	—
	Wisby	30.17	35	NW	4	b	30.16	-.08	35	34	+3	WNW	4	b	#	b	#	36	28	—
	Karlstad ...	30.27	33	SW	2	b	30.15	-.12	28	26	+5	SW	2	b	#	b	#	#	#	—
	Bodö	29.94	37	SW	6	0	29.41	-.51	39	38	+5	SW	6	0	4	0	#	39	32	—
	Christiansund ...	30.23	42	W	9	f	29.95	-.28	43	41	+2	W	9	0	6	f	#	43	39	—
	Skudesnaes ...	30.47	39	NE	0	0	30.32	-.14	39	38	+3	SSE	4	f	2	0	#	39	36	#
	Færder (Christiania Fjord)	30.30	33	SW	1	b	30.20	-.11	35	33	+8	WSW	4	0	2	b	#	35	23	—
	Skagen (The Scaw)	30.33	37	WSW	1	b	30.27	-.05	38	36	+1	NW	4	m	2	b	#	38	32	—
	Fanö	30.49	38	W	6	0	30.36	-.03	38	36	+5	NNW	4	c	#	0	#	39	32	—
BRITISH ISLANDS.	Sumburgh Head	30.32	42	NE	0	0	30.16	-.17	44	44	+6	W	4	f	5	c.0	#	47	38	0.01
	Stornoway ...	30.33	44	SSW	4	0	30.26	-.06	47	46	+6	SW	4	0	4	0	5.4	47	39	0.03
	Wick	30.33	40	SW	1	b	30.27	-.07	42	40	+9	S	3	0	2	b	#	44	32	—
	Nairn	30.39	41	W	1	bc	30.35	-.04	43	40	+18	W	2	c	1	bc	#	43	23	—
	Aberdeen ...	30.40	37	SW	1	b	30.34	-.06	39	35	+14	SW	1	ogm	1	bm	6.9	47	24	—
	Leith	30.47	39	SW	1	m	30.48	+.01	38	36	+13	WSW	2	bcm	#	m	#	44	24	—
	Shields	30.51	36	ESE	2	f	30.54	+.07	33	32	+5	SSW	3	f	2	bm.f	#	43	27	—
	Spurn Head ...																#			
	York	30.54	38	S	1	f	30.59	+.08	30	30	+6	SSW	1	b	#	c.f	2.0	41	21	—
	Loughborough ...	30.57	36	SSE	1	b	30.66	+.14	21	21	0	SE	1	bf	#	bm	#	48	20	—
	Ardrossan ...	30.47	44	S	2	bf	30.50	+.05	44	43	+12	S	4	b	3	bf	#	46	32	—
	Malin Head ...	30.38	43	S	4	bm	30.41	+.06	42	41	+5	S	4	cm	2	bm	#	47	36	—
	Belmullet ...	30.40	47	SSW	3	0	30.49	+.14	40	48	+8	SSW	4	0	#	b.0	#	49	40	0.01
	Donaghadee ...	30.48	42	SSW	3	bc	30.55	+.11	35	35	+7	SW	4	bc	2	bc	#	44	27	—
	Liverpool (Bidston)	30.55	41	SE	1	b	30.65	+.17	35	32	+5	SSE	1	b	?	bm	#	44	30	—
	Holyhead ...	30.52	42	SSW	1	f	30.61	+.16	45	42	+11	SW	3	c	2	f	#	48	32	—
	Parsonstown ...	30.46	44	SE	1	c	30.59	+.18	35	34	+4	S	1	c	#	b, c	8.2	51	30	—
	Valencia ...	30.45	46	SSE	3	bc	30.59	+.22	47	44	+2	SSE	3	c	3	bc	7.1	52	44	—
	Roche's Point ..	30.47	47	S	4	bc	30.62	+.24	46	43	0	SSW	4	b	4	bc	#	51	44	—
	Pembroke (St. Ann's Hd.)	30.52	43	ESE	2	b	30.65	+.20	43	41	+6	SW	3	b	3	b	6.5	46	36	—
	Scilly	30.49	47	ESE	2	bc	30.61	+.26	47	44	+2	E	3	b	1	bc	9.5	52	43	—
	Prawle Point ...	30.53	43	SE	2	b	30.70	+.27	39	37	-4	NNE	2	b	1	b	#	48	34	—
	Jersey (St. Aubin's)	30.52	47	E	3	b	30.68	+.25	40	37	0	ENE	3	bm	3	b.bw	#	52	33	—
	Hurst Castle ...	30.56	42	SE	1	bm	30.70	+.24	28	27	-5	N	1	f	1	bm	#	46	27	—
	Dungeness ...	30.54	38	ENE	3	b	30.68	+.21	30	30	-9	NNW	1	f	0	b	#	42	22	—
	North Foreland																#			
	London (Brixton) ...	30.58	37	E	2	bm	30.70	+.20	24	23	-1	SE	1	f	#	bm, b	0.3	44	22	—
	Oxford	30.62	32	NE	0	b	30.71	+.17	25	25	0	SW	1	f	#	b, f	#	45	23	—
	Cambridge ...	30.60	36	E	1	bm	30.70	+.16	22	22	-4	S	1	f	#	bm	8.8	46	20	—
	Yarmouth ...	30.55	37	E	2	b	30.63	+.12	32	31	-4	WSW	3	bm	3	b	#	30	27	—
GERMANY & HOLLAND.	Cuxhaven ...	30.56	34	NNW	2	0	30.54	-.01	36	35	+9	NNW	2	0	#	0	#	36	27	—
	Berlin	30.50	31	NW	4	0	30.49	-.02	34	32	+3	NNW	4	0	#	0	#	34	30	—
	Wiesbaden ...	*	*	*	*	*	30.63	+.14	26	24	+4	NE	0	b	#	*	#	39	21	—
	Munich... ..	30.52	28	NE	0	b	30.61	+.18	24	23	+7	SW	3	b	#	b	#	36	16	—
	The Helder ...	30.59	32	NE	0	b	30.62	+.09	38	36	+11	WNW	2	0	1	b	#	38	25	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.69		29	28		ESE	1	f	#	b	#	38	21	—
	Cape Gris Nez...	?	32	E	2	bc	?	?	30	30	0	E	1	m	0	bc	#	39	27	—
	Paris	30.53	39	NE	2	b	30.67	+.25	25	25	+1	N	1	b	#	b	#	47	23	—
	Brest	30.45	48	E	1	b	30.60	+.25	36	35	0	E	1	b	1	b	#	51	32	—
	Lorient... ...	30.47	46	E	3	bc	30.61	+.29	37	32	+1	E	4	b	2	bc	#	55	34	—
FRANCE &	Rochefort ...	30.43	47	E	3	b	30.54	+.23	36	34	-1	E	3	b	#	b	#	50	34	—
	Belfort	30.48	35	ENE	2	b	30.65	+.22	26	25	+3	ENE	3	m	#	m	#	42	23	—
	Lyons	30.47	40	NNE	1	b	30.64	+.26	29	26	+4	SW	1	b	#	b	#	46	25	—
	Nice	30.41	40	NE	0	b	30.47	+.12	36	29	+3	E	3	b	2	b	#	48	32	—
	Perpignan ...	30.41	45	SE	2	b	30.53	+.24	33	33	0	W	1	b	#	b	#	57	31	—
	Biarritz ...	30.25	49	SE	2	c	30.41	+.28	43	41	0	ESE	4	c	2	c	#	54	43	0.08
PENINSULA.	Corunna ...																#			
	Lisbon	30.22	58	NNE	1	b	30.26	+.13	50	47	-2	NNE	3	bc	#	b	#	63	48	—
	Azores (P. Delgada)	30.02	59	SSE	5	bc	29.93	-.13	59	55	0	SE	5	0	5	bc	#	63	57	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

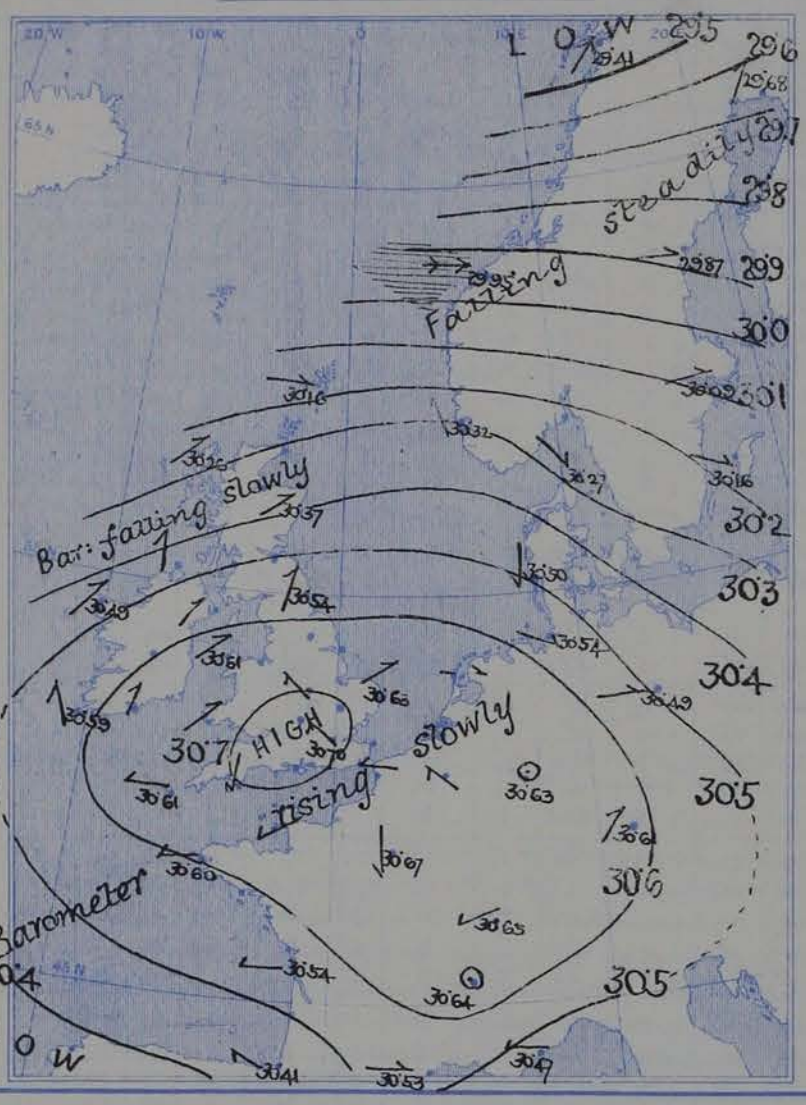
Bright Sunshine yesterday Southport... 6.8. hrs;

WEATHER CHARTS

FOR Tuesday, 28th February, 1899.

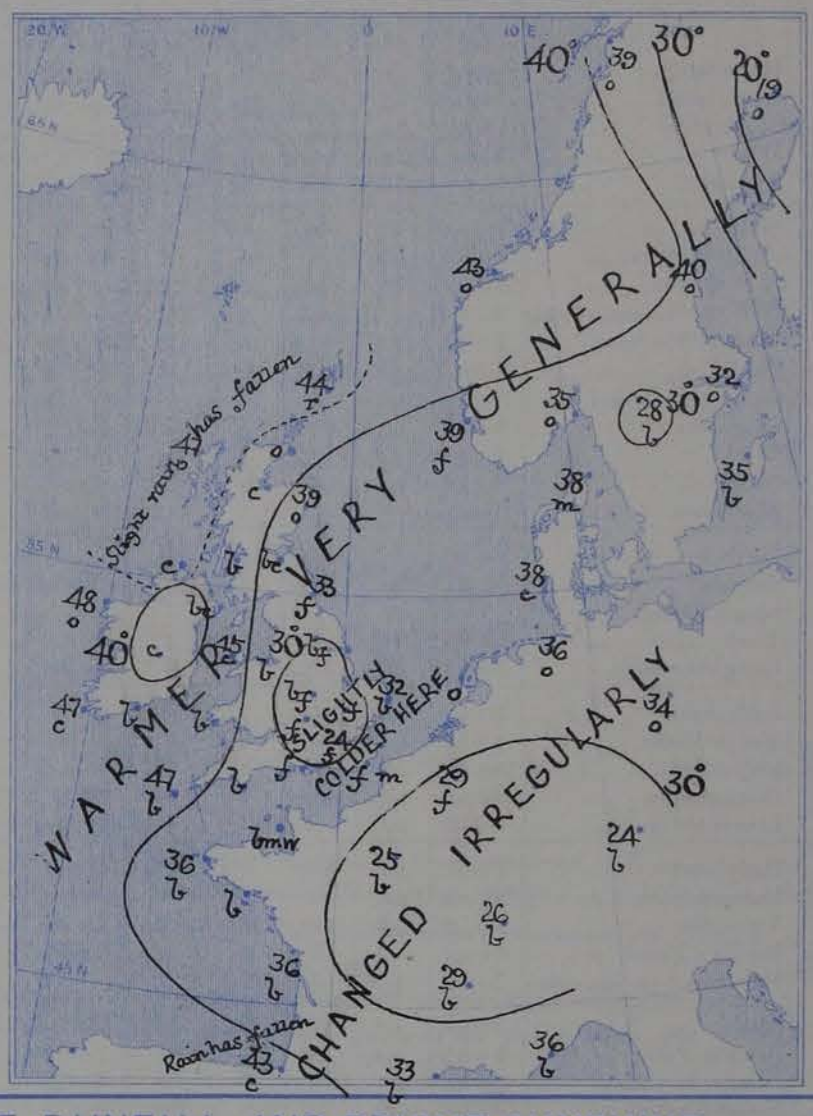
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; *Force 8 to 10* ⟶ ; *Force 1 to 4* ⟶ ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF FEBRUARY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29·772	38·6	37·2	42·2	34·4	51	1887, 91	17	1895	3·11	—	—
Stornoway	29·775	38·9	38·0	43·6	34·2	55	1891	12	1892	3·80	63·6	25
Wick	29·800	37·7	36·4	42·9	32·9	59	1878	2	1895	2·16	—	—
Nairn	29·815	36·7	35·1	43 4	32·5	64	1891	0	1895	1.65	—	—
Aberdeen	29·853	36·9	35·2	43·1	33·3	59	1878, 83	6	1895	2·26	73·4	28
Leith	29·873	38·1	36·7	45·5	33·9	59	1882	12	1895	1·51	—	—
Shields	29·908	38·3	36·9	43·9	34·4	59	1887	7	1895	1·50	—	—
Spurn Head	29·938	38·1	37·2	42·2	35·4	57*	1891	20*	1895	1·32	—	—
York	29·945	37·0	36·0	44·4	33·2	59	1872, 78	3	1895	1·68	60·0	22
Loughborough	29·972	36·7	35·5	45·2	33·0	64*	1891	—5*	1895	1·71	—	—
Ardrossan	29·880	39·2	38·0	44·4	35·9	56	1891	13	1895	2·93	—	—
Malin Head	29·844	41·0	39·5	45·5	38·3	—	—	—	—	—	—	—
Belmullet	29·870	42·3	40·7	47·2	38·8	—	—	—	—	4·20	—	—
Donaghadee	29·894	40·0	39·1	45·5	36·6	56	1894	16	1895	2·34	—	—
Holyhead	29·923	41·1	39·8	45·4	38·3	59	1891	17	1895	2·42	—	—
Liverpool	29·943	38·5	37·0	44·3	35·7	62	1878	12	1895	1·68	—	—
Parsonstown	29·915	39·1	37·8	46·8	35·1	59	1891	6	1895	2·16	68·0	25
Valencia	29·917	44·3	42·6	49·5	40·3	58	1891	22	1895	4·89	72·9	27
Roche's Point	29·927	43·0	41·4	48·2	39·4	56	1877, 89	25	1895	4·19	—	—
Pembroke	29·948	41·8	40·5	45·3	39·0	52	1877, 91	23	1895	2·62	79·9	29
Scilly	29·964	45·7	44·1	48·6	42·4	56	1877	27	1895	2·62	—	—
Prawle Point	29·996	41·2	40·2	46·6	37·8	57*	1891	21*	1888, 92, 95	1·94	—	—
Jersey	30·016	42·0	40·6	46·8	38·8	62	1891	18	1895	2·41	95·0	34
Hurst Castle	29·996	39·8	38·8	45·4	36·3	60	1877	17	1895	2·10	—	—
Dover	29·990	38·8	37·7	44·2	35·5	56	1882	11	1889	1·81	—	—
LONDON	29·996	38·1	36·8	45·5	34·5	62	1876, 91	10	1895	1·64	33·0†	12†
Oxford	29·994	37·3	36·1	44·0	34·2	64	1891	7	1895	1·76	66·3	24
Cambridge	29·987	36·7	35·7	45·5	32·1	67	1891	6	1895	1·42	70·5	26
Yarmouth	29·967	37·8	36·9	42·3	34·0	58	1872	15	1895	1·73	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.7 ins. and more at several of our S.rn stations, and exceeding 30.5 ins. all over Ireland, England and France.
Lowest 29.4 ins. to 29.6 ins. over Lapland, and below 30.2 ins. in the Shetlands.
Gradients moderate over the N.rn districts, and increasing, slight in the anticyclone.
Barometer falling in the N, rising slightly in the S. and SW.

TEMPERATURE

Highest 48° at Belmullet, 47° at Stornoway, Valencia and Scilly, 44° at Sumburgh H., 43° at Christiansund.
Lowest (1) 19° at Haparanda, 28° at Karlstad; 24° at Munich, 25° at Paris; (2) 21° at Loughborough, 24° in London.
It has risen fast at our N.rn stations during the night, fallen over our S. Midlands, but the rise was spreading.

WIND

Light to moderate from the S.rn or SW.rn over the greater part of the United Kingdom; W.rly in Scandinavia with a gale at Christiansund; NW.rly in Denmark and N. Germany.
Light from between N. and E. over France, Belgium and the English Channel.

WEATHER

Fine over W.rn Europe as a whole, but foggy in many parts of England, as well as at Brussels.
Dull in the N. of Scotland and also over Scandinavia & N. Germany, with rain at Sumburgh H.
Slight rain fell yesterday on our extreme N. and NW. coasts, and also at Biarritz, but in other parts of our area the weather has remained very dry.

SEA

Slight or smooth generally, but rough at Christiansund, and rather rough at Sumburgh H.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone is moving southwards, and the low pressure systems which are passing across Scandinavia are beginning to spread over the N.rn parts of our Islands. W.rly and SW.rly winds are likely to become general, with milder weather.

FORECASTS

For the 24 hours ending at NOON on 1st MARCH 1899.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	SW.rly to NW.rly winds, strong, rain at times, milder.	6 SCOTLAND WEST	Same as No. 0.
1 SCOTLAND EAST	SW.rly to W.rly winds, milder, cloudy, perhaps slight cold showers.	7 ENGLAND N.W.	Same as Nos. 1 and 2.
2 ENGLAND N.E.		8 ENGLAND S.W.	Very variable winds, milder, fair as a whole.
3 ENGLAND EAST	Varying SW.rly to W.rly winds, fair, milder, cold increasing.	9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.48	39	37	X	0	0	2
Sumburgh Head	30.33	46	42	W	1	c	3
Stornoway	30.32	47	43	WSW	5	0	5
Aberdeen	30.40	46	41	S	1	bm	1
Shields	30.49	43	40	SSW	2	bm	2
Ardrossan	30.47	46	45	S	3	bf	3
Malin Head ...	30.37	47	44	SSW	4	b	2
Belmullet	30.40	48	47	SSW	3	b	*
Holyhead	30.50	48	41	SW	1	m	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.41	51	46	SSE	4	c	4
Scilly	30.43	50	45	ENE	2	bc	1
Jersey	30.50	50	41	ENE	3	b	3
Hurst Castle ...	30.51	46	42	ENE	2	bm	2
Dungeness ...	30.52	42	41	ENE	3	b	2
North Foreland							
London (Westminster)	30.54	44	39	SE	2	bm	*
Yarmouth ...	30.54	39	36	E	2	b	3
Rochefort ...	30.38	53	48	E	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair or fine over W^rn., central and S^rn. Europe as a whole, but with fog or mist in many parts of Gt. Britain. Dull in most of the N^rn. and E^rn. countries, with rain at Christiansund and Hernosand, and snow at Lemberg. Fog over Gt. Britain clearing temporarily later; slight rain falling on our extreme N. and NW. coasts, and also at Biarritz.

Temperature fallen over our Islands, France and the Spanish Peninsula, risen elsewhere. Morning readings highest 54° at Oporto and Algiers, 52° at Lisbon, and 50° at Malta and Tunis, above 45° at most of the Mediterranean and Spanish coast stations. Lowest 11° at Haparanda, 13° at Kharkov, 14° at Lemberg, and 15° at Archangel, Moscow and Kiev, considerably below the freezing point over central Europe generally, and also over the N^rn. and inland parts of Gt. Britain. Rising during day to 50° or slightly above it at several of our own W^rn. and N^rn. stations; exceeding 50° also in the W. and S. of France, and reaching 57° at Perpignan. Sharp frost occurring over England at night.

Wind light to moderate from the E^rly. or NE^rly. over the south of England, the Netherlands, W^rn. Germany, France and the greater part of Southern Europe. Light from the SE^rly. in Ireland and from the SW^rly. or W^rly. in Scotland. W^rly. or NW^rly. over Scandinavia, Denmark, Germany, Austria and western Russia, and strong in force at Christiansund, Wisby and the Skaw. No important change occurring over western Europe during day.

Barometer highest 30.5 ins. and upwards over the S^rn. parts of Denmark and the North Sea, NW^rn. Germany, the Netherlands and the E^rn. and central parts of England; 30.2 ins. and upwards in an anticyclone covering the greater part of Europe. Lowest 29.7 ins. and less in a large shallow depression over N^rn. Russia; 30.0 ins. and less in another shallow area over Algeria. Anticyclone moving slowly in a W^rly. or SW^rly. direction during day, and barometer falling over N^rn. Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers: q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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REPORTS FOR FEBRUARY 1899

2. CORRECTIONS.

DATE.	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
1	Cambridge	–	–	N	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0·01
6	Yarmouth	29·65	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
"	Lyons	29·88	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
9	Spurn Hd	–	–	–	–	–	–	–	–	–	–	–	–	–	–	c. l	–	–	–	–
"	York	–	–	–	–	–	–	–	–	50	–	–	–	–	–	–	–	–	–	–
"	Malin Head	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	No rain
10	Valencia	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0·51
12	Scilly	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	43	–
"	Yarmouth	–	–	–	–	–	–	–	–	–	–	–	–	bc	–	–	–	–	–	–
14	Stornoway	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	38	–
"	Loughborough	–	–	–	–	–	29·37	+20	–	–	–	–	–	–	–	–	–	–	–	–
15	Parsonstown	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	7·8	–	–	–
19	Jersey	30·09	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
"	London	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	39	–
23	Liverpool	30·29	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
25	Loughborough	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	50	–	–
"	Cambridge	–	–	SE	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
26	Leith	–	–	–	–	–	–	–	31	31	–	–	–	–	–	–	–	–	–	–
27	Pembroke	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0·01

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
DATE.	STATIONS.	BAROM. At 32° and M.S.L.	TEMP. Dry Bulb.	WIND. Direc.	WIND. Force (0 to 12.)	Weather	BAROMETER. At 32° Fahr. and M. S. L.	BAROMETER. Change since Yesterday.	TEMPERATURE. Dry Bulb.	TEMPERATURE. Wet Bulb.	TEMPERATURE. Change since Yesterday.	WIND. Direc.	WIND. Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	TEMP. Max.	TEMP. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
2	Azores (P. Delgada)	29.79	57	W	4	bc	29.71	-.01	59	53	+ 6	SW	5	o	5	bc	–	61	53	–
3	Corunna	29.40	55	W	3	c	29.78	–	45	43	–	SSW	3	c	3	c	–	55	34	0.12
..	Lisbon	29.76	50	WNW	4	b	29.91	+.34	50	49	+ 2	SSE	2	r	–	b	–	52	48	0.51
4	The Helder	29.84	38	WNW	1	b	29.98	+.27	33	–	– 2	2	0	o	0	b	–	44	32	0.04
..	Corunna	29.65	54	SE	4	o	29.79	+.01	57	55	+ 12	S	3	r	4	o	–	59	45	0.08
5	Corunna	29.76	63	S	4	bc	29.74	-.05	54	49	– 3	S	6	bc	5	bc	–	64	50	–
6	Corunna	29.65	63	S	6	c	29.81	+.07	50	48	– 4	S	1	c	2	c	–	63	45	0.51
..	Lisbon	29.89	56	SSW	5	bc	30.03	+.10	55	53	– 4	SW	3	c	–	bc	–	61	54	0.20
..	Azores (P. Delgada)	29.38	60	SSW	7	r	29.32	– .19	57	53	+ 3	WSW	8	o	7	r	–	63	54	0.39
7	Corunna	29.75	60	S	6	bc	29.75	-.06	56	52	+ 6	SSW	3	o	2	bc	–	63	?	0.28
9	Corunna	29.57	58	SSW	8	r	29.53	–	62	53	–	S	8	c	5	r	–	64	50	0.98
10	Nice	30.26	51	Z	0	o	30.31	+.05	44	–	– 2	E	2	bc	1	o	–	57	43	–
..	Corunna	29.48	73	S	9	b	29.68	+.15	58	54	– 4	SSW	5	c	4	b	–	75	50	–
11	Corunna	29.77	62	SSW	6	c	29.64	– .04	56	52	– 2	S	6	c	4	c	–	63	50	–
12	Belfort	29.82	57	W	1	o	29.84	-.17	47	–	+ 4	SW	3	r	–	o	–	69	43	0.04
13	Lisbon	30.21	56	SSW	3	c	30.01	-.24	55	53	+ 1	SSW	5	r	–	c	–	61	54	–
14	Corunna	30.13	57	SW	6	bo	29.51	–	47	43	–	S	3	r	7	bc	–	59	41	1.18
..	Azores (P. Delgada)	29.89	55	W	5	r	29.93	-.11	47	45	– 5	NNW	4	r	4	r	–	61	46	0.71
15	Lisbon	29.42	52	S	6	r	29.58	-.05	51	50	– 1	SE	2	o	–	r	–	57	50	0.87
16	Lorient	29.80	?	S	4	o	29.97	–	43	–	–	SW	2	bc	3	o	–	55	34	–
..	Corunna	29.75	59	SE	2	c	29.91	–	46	43	–	SE	1	c	5	c	–	63	41	–
17	Lorient	29.96	48	ESE	3	bc	29.90	-.07	48	47	+ 5	SE	4	b	4	bc	–	55	43	–
..	Corunna	29.83	64	SE	1	o	29.91	.00	46	45	0	SE	1	f	3	o	–	70	41	–
..	Azores (P. Delgada)	30.02	50	NNW	2	c	30.06	+.18	48	45	– 9	NNW	4	bc	2	c	–	61	46	–
18	Corunna	29.91	57	NW	3	f	30.10	+.19	54	53	+ 8	NW	1	f	5	f	–	64	46	–
..	Lisbon	30.08	55	NNW	3	bc	30.13	+.24	54	52	– 1	Z	0	o	–	bc	–	63	52	–
19	The Helder	30.13	41	E	1	f	30.16	+.03	39	–	0	W	1	f	1	f	–	46	34	–
20	Corunna	30.03	57	SSE	2	o	29.96	-.08	52	51	+ 1	NE	3	f	3	o	–	61	46	0.04
21	Nice	30.19	50	E	2	b	30.19	+.02	41	–	– 10	Z	0	bc	0	b	–	61	41	–
..	Corunna	29.88	61	NNE	3	o	29.92	-.04	52	47	0	S	3	bc	3	o	–	68	45	–
22	Corunna	29.91	63	SSE	3	b	30.00	+.08	45	43	– 7	NNE	2	f	6	b	–	64	39	–
..	Azores (P. Delgada)	29.82	59	WSW	4	o	29.91	+.02	55	52	– 1	NNW	3	c	3	o	–	63	54	0.08
23	Corunna	30.04	57	NNE	1	b	30.19	+.19	50	48	+ 5	NNE	1	f	2	b	–	57	45	–
24	Corunna	30.20	58	N	3	b	30.17	-.02	?	?	?	NW	?	?	2	b	–	59	41	–
25	Corunna	30.12	57	NW	1	b	30.00	-.17	51	48	–	E	2	b	2	b	–	61	46	–
..	Azores (P. Delgada)	30.15	54	WNW	3	b	30.15	+.13	57	53	+ 2	WSW	3	o	3	b	–	63	52	–
27	Brussels	–	–	–	–	–	30.51	+.09	22	–	– 4	NNE	1	b	–	b	–	42	19	–
28	Spurn Head	30.55	36	SSE	3	b	30.59	+.08	35	34	– 1	WSW	3	bm	3	b	–	42	32	–
..	Corunna	30.25	57	NE	3	b	30.36	–	50	46	–	NE	3	b	2	b	–	57	43	–